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MRT

MOBILE RADIO TECHNOLOGY

The Official Magazine of IWCE

DECEMBER 2002

2003

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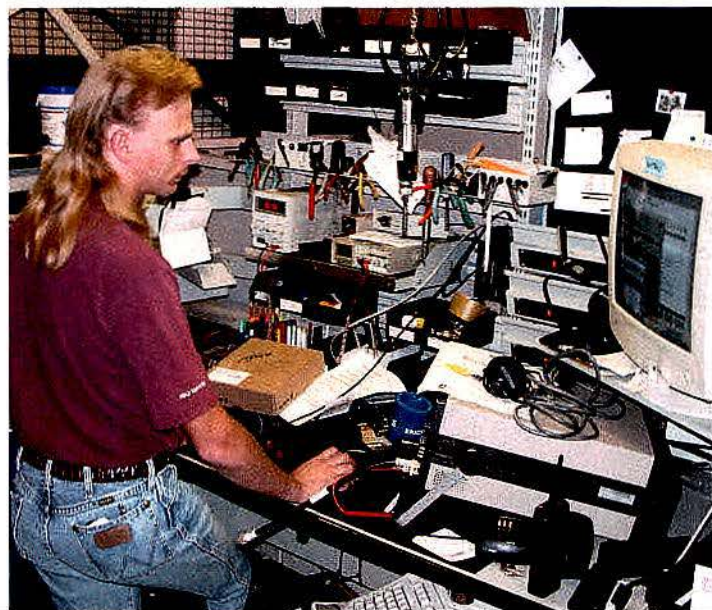
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On the cover: Scotty Birtell was one of ten M/A-Com technicians who tested and programmed the 500 radios needed to aid in rescue operations in New York.
Photo courtesy of M/A-Com Wireless Systems.



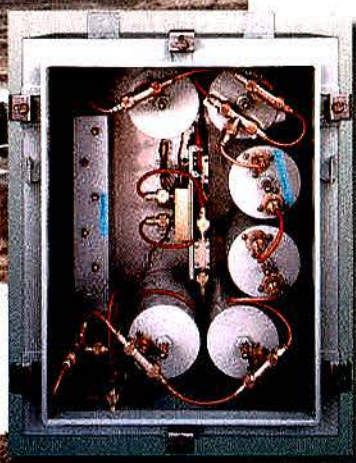
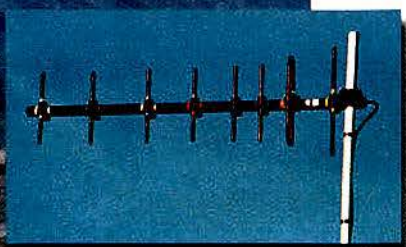
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INTRODUCTION

Welcome to the 2003 MRT Buyers' Guide

Writing an introduction to a buyers' guide is like writing a eulogy for Osama Bin

Laden: My enthusiasm for the project far outweighs what I have to say.

This guide contains essential information that we hope will be a handy reference tool throughout the year. Products, services, brand names and company contact information are listed.

We would love to include every existing product, but that, of course, is impossible. Still the vendors listed in these pages are self-selecting and to a certain extent represent the best we could find related to the industry of mobile radio technology.

The listings are compiled from a short form that the vendors complete. We collected the information through 2001 and

2002 and then asked the vendors for updates. Only those who responded are included. We figure if a company cannot get it together to respond for a free listing in an industry buyers' guide, it probably does not do much in the way of customer service either.

Whether you are a vendor or a consumer, we would like to hear from you with suggestions about how we can improve the guide. We would also like to hear if consumers have problems with any of the businesses listed here or if they feel the products are misrepresented in some way.

There are a million claims and with the advent of convergence, we are seeing more and more products that claim to be a Swiss Army knife of a sector or industry. Even today's cell phones offer Web surfing, e-mail retrieval, and a bunch of other stuff that you probably never would have believed would fit in your hand. So please let us know if you find exaggerated claims.

We love to follow up.

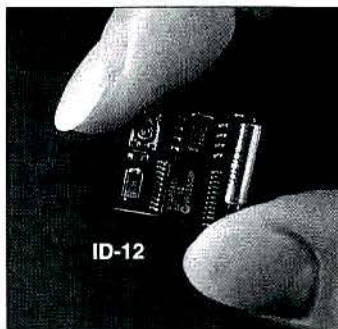
We have started a new mailbox just for your comments and letters, mrtletters@primediabusiness.com. Or you can always contact me directly.

The good news is that it's a buyer's market. The industry is so competitive in this poor economy that good deals are available. That is, of course, if you are solvent enough for build-outs or outsourcing.

Best of luck in 2003,

Bill McCarthy
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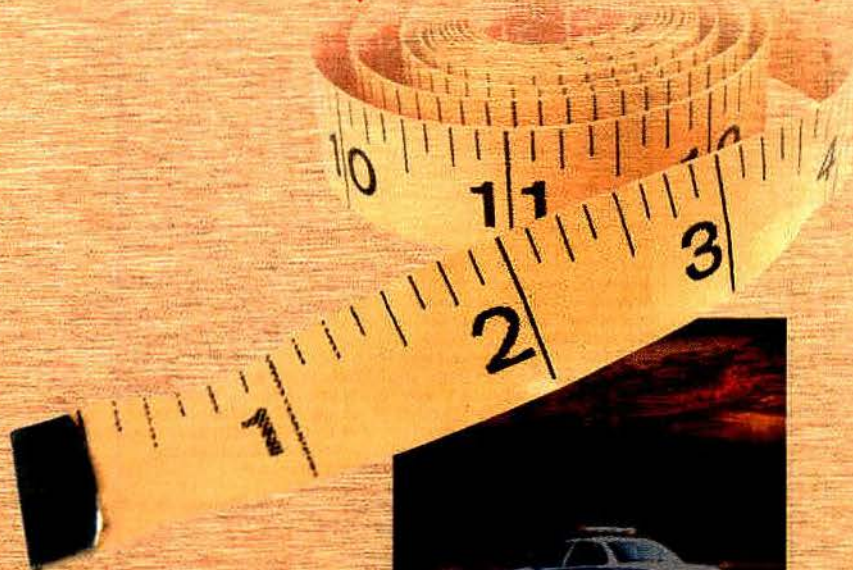


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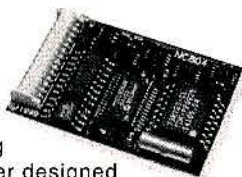
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Mobile Mark Inc.
 Monitor Electronics
 Mountain Communications
 MULTICOM
 NCG/COMET Antenna
 Nearson Inc.
 Newtronics Antenna Corp.
 Olympic Radio-LLC
Paging & Wireless Service Center
 PMC Association
 Polaris Radio
 Primus Electronics
 Procomm USA
 P&W Service Center
 Quality Mobile Communications
 Radial/Larsen Antenna Technologies
 Radio Communications Wholesalers
 RCW Distributing
 RF Neulink (Div of RF Industries)
 Sabre Communications Corp.
 Samco Antennas Inc.
 Secom Systems Inc.
 SGC Inc.
 Sierra Wireless Inc.
Sinclair Technologies Inc.
 Smith Communications Service
 STI-CO Industries Inc.
 Talley Communications
 US Tower Corp.
 Webster Communications Inc.
 Wisco International
 Young Design

Antennas: Portable

AAT Communications Systems Corp.
 Adams Distributing
 Advanced Test Equipment Corp. (ATEC)
 A/F CommSupply
 Aluma Tower Co. Inc.
 Antenex
 Antenna Factor
Antenna Specialists
 Antenna World
 APREL Laboratories
 Astron Antenna Co.
 AVCOM of Virginia Inc.
 Beam Radio Inc.
 Benelec Pty Ltd.
Centurion Wireless Technologies Inc.
 Childs Antennas
 Comprod Communications Ltd.
 Cree Microwave Inc.
 Delcom Industries
 DH Marketing
El Paso Communications
 Electro-Comm Distributors
 Electronic Products Inc.
 General Communications Inc.
 Hill Radio Communications
 Hutton Communications
 Kenwood Communications
 Les Wallen USA
 Manon Engineering Inc.
Maxrad
 MCM Electronics
 Mobile Mark Inc.
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 Nearson Inc.
 Newtronics Antenna Corp.
 PMC Association
 Polaris Radio
 Primus Electronics
 Procomm USA

PRYME Radio Products
 P&W Service Center
 Quality Mobile Communications
 Radial/Larsen Antenna Technologies
 Radio Communications Wholesalers
 RCW Distributing
 RF Neulink (Div of RF Industries)
 Sabre Communications Corp.
 Samco Antennas Inc.
 Secom Systems Inc.
 SGC Inc.
 Sky Probes/Modublox
 Smith Communications Service
 STI-CO Industries Inc.
 Stuart Electronics
 Taiyo Yuden (U.S.A.) Inc. Bluetooth Division
 Talley Communications
 US Tower Corp.
 Wisco International

Automatic Number Identification

Adams Distributing
 A/F CommSupply
 Autocode
 Beam Radio Inc.
 Cimarron Technologies
Communications Specialists Inc.
Control Signal
 Electro-Comm Distributors
 EPCOM
 General Communications Inc.
 Global Software Corp.
 Intergraph Public Safety
 Intrado Inc.
Midian Electronics
NorComm Corp.
 Pipo Communications
 Proctor & Associates Inc.
 Quality Mobile Communications
 Secom Systems Inc.
 Selectone
 Synetcom Digital
 Talley Communications
 Tekno Telecom LLC
 VisionAIR Inc.
 Wisco International
Zetron

Automatic Vehicle Location (AVL)

AAT Communications Systems Corp.
 Adams Distributing
 AT&T Wireless
 Avel-Tech
 Beam Radio Inc.
 Benelec Pty Ltd.
 Cimarron Technologies
 Comm-Net 2000 Manufacturing
 Cooks Communications
 Data911/Data411 (formerly SunView Mobile)
 Data Burst Technologies Inc.
 Dataradio
 DM Data Corp.
 EPCOM
 GEIGER Communications Inc.
 General Communications Inc.
 Global Software Corp.
 HTE Inc.
IDA
 Intergraph Public Safety
 Intrado Inc.
 Jack Daniel Co.
 Kantronics
 Kenwood Communications
 LOCSYS Inc.

Mentor Engineering
 Padcom
 Plant Equipment Inc.
 PMC Association
 Printrak A Motorola Co.
 Pyramid Communications
 Quality Mobile Communications
 Racom Products Inc.
 Radio Communications Wholesalers
 Radio Satellite Integrators
 RCW Distributing
 Secom Systems Inc.
 SmarTrunk Systems Inc.
 Spillman Technologies
 Synetcom Digital
 Tekno Telecom LLC.
 TriTech Software Systems
 VisionAIR Inc.
 Vytex Wireless Products Division
 Wisco International
 Zebryk Engineering

Batteries: Portable

Acheson Colloids
 Adams Distributing
 Adcour
 Battery Products
 Beam Radio Inc.
Centurion Wireless Technologies Inc.
 Delcom Industries
 DH Marketing
El Paso Communications
 General Communications Inc.
 Herb Kreckman Co.
 Hutton Communications
ICOM America Inc.
 Imark Communications Pty Ltd.
 JBRO Batteries Inc.
 Kenwood Communications
 Marconi
 Merry Electronics (USA) Co. Ltd.
 MULTICOM
 Multiplier Industries Corp.
 NCG/COMET Antenna
 Northern Technologies Inc.
 NSI Communication Inc.
 PMC Association
 Polaris Radio
 Power-Sonic
 Primus Electronics
 Procomm USA
PRYME Radio Products
 P&W Service Center
 Quality Mobile Communications
 Racing Electronics
 Radio Wholesale
 RightCo
 Secom Systems Inc.
 Sterling Associates Inc.
 Stuart Electronics
 Talley Communications
 W&W Manufacturing Co.
 Webster Communications Inc.
 Wisco International

Batteries: Stationary

Adcour
 Battery Products
 Beam Radio Inc.
 Electronic Products Inc.
 Hutton Communications
 JBRO Batteries Inc.
 LaMarche Mfg.
 Marconi
 Power-Sonic
 PowerLink Technologies
 Primus Electronics
 Talley Communications
 Wisco International

Battery Chargers Testers & Charger Analyzers

AC-DC Industries Inc.
 Accela Electronics Inc.
 Accutech
 Adams Distributing
 Adcour
 Advanced Charger Technology Inc.
 AdvanceTec Industries Inc.
 A/F CommSupply
 Air Comm
 Alexander Technologies
 Andrew Corp.
 Argus Technologies Ltd.
 Astratec Electronics Inc.
 Atlantic Solar Products
 AVO International
 Battery Products
 Beam Radio Inc.
 Benelec Pty Ltd.
Cadex Electronics Inc.
 CAIG Laboratories
 Comm-Net 2000 Manufacturing
 Compuquest
 Contact East
 CTB Wireless Inc.
David Levy Co. (DLC)
 Delcom Industries
 DH Marketing
 DX Radio Systems
El Paso Communications
 Electro-Comm Distributors
 General Communications Inc.
 Hendry Telephone Products
 Herb Kreckman Co.
 HMC Electronics
 Hutton Communications
ICOM America Inc.
 ICT
 Imark Communications Pty Ltd.
 Intelligent Technologies
 ITECH
 JBRO Batteries Inc.
Klein Electronics
 LaMarche Manufacturing
 Marketronics
 MCM Electronics
 Merry Electronics (USA) Co. Ltd.
 Midtronics
 Mountain Communications
 Multiplier Industries Corp.
 Newmar
 Power-Sonic
 Primus Electronics
 Quality Mobile Communications
 Radio Communications Wholesalers
 Radio Wholesale
 RightCo
 Samlex America Inc.
 Secom Systems Inc.
 Smith Communications Service
Southwest Windpower
 Sunelco
 Talley Communications
TPL Communications
 VCP International
 W&W Manufacturing Co.
 Webster Communications Inc.
 Wisco International
 Xantrex Technology

Cases for Portable Equipment; Radio Harnesses

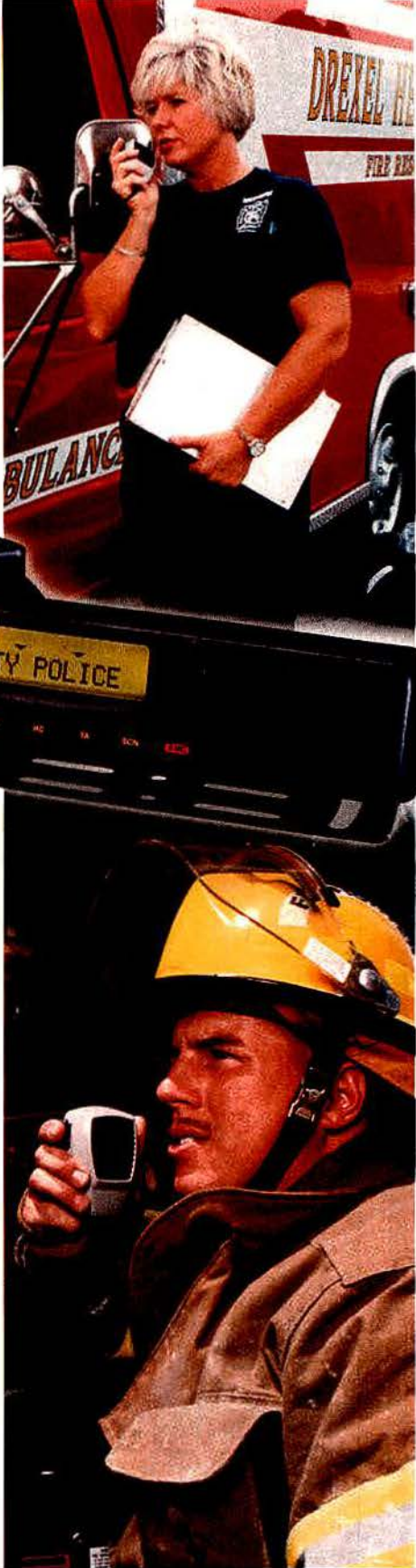
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 Adams Distributing
 A/F CommSupply
 AW Enterprises
 Bee Electronics Inc.

reliability
and
versatility
in a new
fully featured
mobile



Kenwood introduces the TK-7150/8150, an innovative new mobile radio designed for public safety agencies and heavy-duty commercial use. Available in both an under dash mount version and a remote controlled trunk mount version, these 128-channel radios will operate in either conventional or trunking modes and also include FleetSync™ messaging capability. The VHF model is a powerful 50 watts and the UHF model is 45 watts. Call Kenwood today to learn how these rugged and full-featured mobile radios can go to work for you.

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Delcom Industries
El Paso Communications
Electro-Comm Distributors
General Communications Inc.
Herb Kreckman Co.
HMC Electronics
Kenwood Communications
Klein Electronics
Mountain Communications
MULTICOM
Newmar
Northern Technologies Inc.
Primus Electronics

Quality Mobile Communications
Racing Electronics
Radio Communications
Wholesalers
Radio Wholesale
Raine Inc.
RightCo
Scientific Dimensions
Secom Systems Inc.
Talley Communications
Wisco International

Cellular: Accessories

Accele Electronics Inc.

Accutech
Advanced Labeling Solutions
AdvanceTec Industries Inc.
AEA Wireless
A/F CommSupply
Allen Telecom Inc.
Anchor Graphics
Andrew Corp.
Antenna Specialists
AW Enterprises
Battery Products
CAIG Laboratories
CTB Wireless Inc.
Data Burst Technologies Inc.
DW Electrochemicals Ltd.

Electro-Comm Distributors
General Communications Inc.
Hirschmann Electronics Inc.
Hutton Communications
ICT
InFoRad
Klein Electronics
Manon Engineering Inc.
Merry Electronics (USA) Co. Ltd.
Mountain Communications
Northern Technologies Inc.
Radio Communications
Wholesalers
Raine Inc.
RF Connectors (Div. of RF Industries)
RF Industries
RF Neulink (Div of RF Industries)
RightCo
Samlex America Inc.
Scientific Dimensions
Sierra Wireless Inc.
SMC - Signal Measurement Corp.
Synetcom Digital
Talley Communications
Viziflex Seals

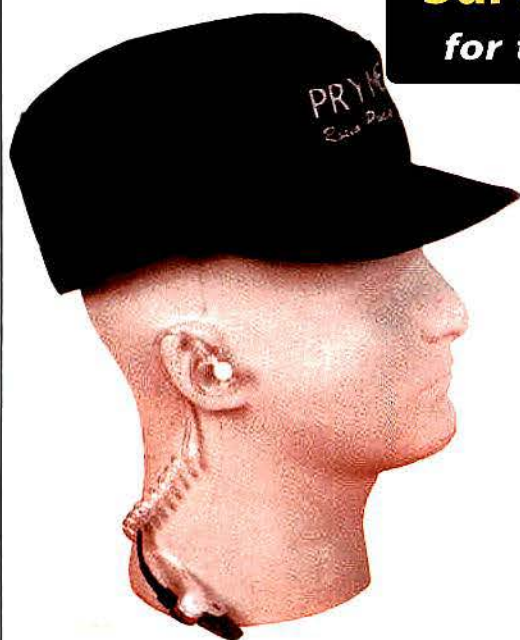
Cellular: Antennas

Accele Electronics Inc.
A/F CommSupply
Allen Telecom Inc.
Aluma Tower Co. Inc.
Andrew Corp.
Antenex
Antenna Factor
Antenna Products Phazar Antenna Corp., Phazar Antenna Corp.
Antenna Specialists
Antenna World
APREL Laboratories
Astron Antenna Co.
Battery Products
Benelec Pty Ltd.
Centurion Wireless Technologies Inc.
Childs Antennas
CTB Wireless Inc.
Electro-Comm Distributors
Electronic Products Inc.
Gabriel Electronics
General Communications Inc.
Hirschmann Electronics Inc.
Hutton Communications
Kathrein Inc.
Klein Electronics
Los Wallen USA
Lund Industries Inc.
MCM Electronics
Mobile Mark Inc.
Mountain Communications
Nearson Inc.
Newtronics Antenna Corp.
Radial/Larsen Antenna Technologies
Radio Communications
Wholesalers
Radio Frequency Systems
RightCo
Samco Antennas Inc.
Secom Systems Inc.
Sierra Wireless Inc.
Sky Probes/Modublox
Stuart Electronics
Taiyo Yuden (U.S.A.) Inc. Bluetooth Div.
Talley Communications
Telewave Inc.

Cellular: Phones

CTB Wireless Inc.
Electro-Comm Distributors
Klein Electronics

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Mountain Communications
Radio Communications
Wholesalers
RightCo
Sterling Associates Inc.
Viziflex Seels

Channel Elements and TCXOs

Air Comm
NKX
Piezo Technology Inc.
Spectracom
Wisco International

Coaxial Cable

Adams Distributing
Aerocomm Inc.
A/F CommSupply
Alcom Products
Allen Telecom Inc.
Andrew Corp.
Anritsu
Antenex
Antenna World
Beam Radio Inc.
Benelec Pty Ltd.
Childs Antennas
CommScope Cable Technology Center
David Levy Co. (DLC)
Decibel Products
Delcom Industries
DX Radio Systems
EAGLE Inc.
El Paso Communications
Electro-Comm Distributors
EMR
Gabriel Electronics
Harris Corp., Intraplex Products
Herb Kreckman Co.
Hill Radio Communications
Jack Daniel Co.
Marketronics
Micro-Coax
Nearson Inc.
Nemal Electronics International
PMC Association
Polaris Radio
Precision Tube
Primus Electronics
Radial/Larsen Antenna Technologies
Radio Communications
Wholesalers
Radio Frequency Systems
RCW Distributing
RF Connectors (Div. of RF Industries)
RF Industries
RF Neulink (Div. of RF Industries)
Secom Systems Inc.
SRC Cables
Talley Communications
Telewave Inc.
Times Microwave Systems
Tower Connections
Trilogy Communications
Wisco International
Young Design

Combiners

Aerocomm Inc.
A/F CommSupply
Allen Telecom Inc.
Beam Radio Inc.
Benelec Pty Ltd.
Comprod Communications Ltd.
dB Spectra
Decibel Products
DH Marketing

DX Radio Systems
Electro-Comm Distributors
Electronic Products Inc.
EMR
Hutton Communications
International Fiberoptic Technologies Inc.
Jack Daniel Co.
JFW Industries Inc.
L-3 Communications
Manon Engineering Inc.
Microlab/FXR
Microwave Filter Co. Inc.
NCG/COMET Antenna
Primus Electronics
Pulsar Microwave
Radio Frequency Systems
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Sinclair Technologies Inc.
Sterling Associates Inc.
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Telewave Inc. designs and manufactures rugged, high-quality wireless system equipment for domestic and international markets, including transmitters combiners, multicouplers, antennas, filters, and RF power monitors. Our customers include wireless system operators, businesses, public safety providers, local and state governments, and Homeland Security agencies. Telewave supports conventional two-way systems, trunking, cellular, SMR, PCS, paging and broadcast services.

TX RX Systems Inc.
Webster Communications Inc.
Wisco International

Computer-Aided Dispatch

Amtelco
Application Data Systems Inc.
Avel-Tech
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DM Data Corp.
DX Radio Systems
Global Software Corp.
HTE Inc.
IDA
Indico Corp.
InFoRad
Intergraph Public Safety
Intrado Inc.
ITN ServicePlus
MaSys

Mentor Engineering
Midian Electronics
Modular Communication Systems
Motorola
New World Systems
Open Software Solutions Inc. (OSS)
Orbacom Communications
Integrator Corp.
Padcom
PEC Solutions Inc.
Printrak A Motorola Co.
Proctor & Associates Inc.
Public Safety Systems (PSSI)
Spillman Technologies
Synetcom Digital
TCI (Tel Control Inc.)
TriTech Software Systems
Viking Technology Inc. (See PEC Solutions)
VisionAIR Inc.
Zebryk Engineering

Connectors

Accele Electronics Inc.
Adams Distributing
A/F CommSupply
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Andrew Corp.
Anritsu Co.
Antenex
Antenna World
Astrolab
Beam Radio Inc.
Benelec Pty Ltd.
Burndy Electrical
CAIG Laboratories
Childs Antennas
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Contact East
David Levy Co. (DLC)
Decibel Products
Delcom Industries
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Harger Lightning & Grounding
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Hill Radio Communications
Hutton Communications
Jack Daniel Co.
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Mason Electric
MCM Electronics
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Nemal Electronics International
Polaris Radio
PowerLink Technologies
Primus Electronics
Radial/Larsen Antenna Technologies
Radio Communications
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Radio Frequency Systems
RCW Distributing
RF Connectors (Div. of RF Industries)
RF Industries
RF Neulink (Div. of RF Industries)
Sinclair Technologies Inc.

Stuart Electronics
Superior Electric
Talley Communications
Times Microwave Systems
Tower Connections
Trilogy Communications
TRU Corp.
Webster Communications Inc.
Wisco International

Consoles

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Catalyst Communications Technologies Inc.
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Cruisers Inc.
Dispatch Products Co.
Durham Communications Inc.
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Equipto Electronics Corp.
GAI-Tronics Corp.
Gamber-Johnson
General Communications Inc.
Havis-Shields Equipment Corp.
IDA

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Lund Industries Inc.
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Motorola
Olympic Radio-LLC
Orbacom Communications
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Plant Equipment Inc.
PMC Association
Secom Systems Inc.
SmartLink Radio Networks Inc.
SMC - Signal Measurement Corp.
Telecommunications Engineering Association
Troy Products
Zetron

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International Fiberoptic Technologies Inc.
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Kathrein Inc.
Manon Engineering Inc.
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Sinclair Technologies Inc.

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National Pager Services
NKX
Piezo Technology Inc.
Sentry Manufacturing
Wisco International

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Berkeley Varitronics Systems Inc.
Carlson Wireless Technologies Inc.
Cimarron Technologies
Compuquest
Contact East
Cromack Industries Inc.
CTB Wireless Inc.
Data Burst Technologies Inc.
Dataradio
DCC (Dialogic Communications Corp.)
EF Johnson
Electronic Products Inc.
4RF Communications Ltd.
Futurecom Systems Group Inc.
Genave/NRC Inc.
GRE America
Hamtronics
Harris Corp., Intraplex Products
Hutton Communications
Kantronics
Mentor Engineering
Metric Systems Corp.
Monior Electronics
NCG/COMET Antenna
OPHIR RF
Padcom
Pyramid Communications
Radio Communications
Wholesalers
Record/Play Tek
RF Neulink (Div of RF Industries)
RF Technology
Secom Systems Inc.
Sierra Wireless Inc.
SmarTrunk Systems Inc.
Synetcom Digital
Talley Communications
Telecommunications Engineering Association
Teledesign Systems
Telmobile
Telescada
Thales Communications Inc.
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Zebryk Engineering

Decoders and Encoders

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A/F CommSupply
Air Comm
B&C Communications
Beam Radio Inc.
Cimarron Technologies
Communications Specialists Inc.
Compuquest

Connect Systems Inc.
CPI Communications Inc.
Cromack Industries Inc.
CTI Inc.
DH Marketing
Eagle Wireless International
ECOM Systems
El Paso Communications
Electro-Comm Distributors
Electronic Products Inc.
Genave/NRC Inc.
Hamtronics
Hark Systems Inc.
Kantronics
Link Communications Inc.

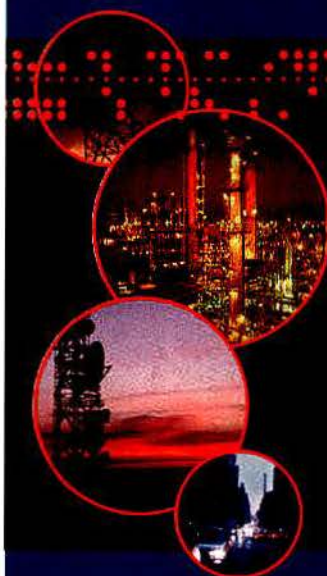
Midlan Electronics
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MX-COM Inc.
NorComm Corp.
Optoelectronics
Pipo Communications
RF Industries
Secom Systems Inc.
Selectone
SmartLink Radio Networks Inc.
Spectrum Communications
Synetcom Digital
Talley Communications
Thunder Eagle Inc.
Transcendent

Veetronix Inc.
Vitek Wireless Products Division
Wisco International
Zetron

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Doppler Systems
General Communications Inc.
L-Tronics
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Z-Technology

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Allen Telecom Inc.
Antenex
Beam Radio, Inc.
Benelec Pty Ltd.
Comprod Communications Ltd.
CW Wolfe Communications
dBSpectra

Delcom Industries
DH Marketing
DX Radio Systems
El Paso Communications
Electro-Comm Distributors
Electronic Products Inc.
EMR
Fiplex Communications Inc.
GEIGER Communications Inc.
Hutton Communications
International Fiberoptic
Technologies Inc.
Jack Daniel Co.
Kathrein Inc.
L-3 Communications

Manon Engineering Inc.
Narda-An L3 Communications Co.
Primus Electronics
Radio Communications
Wholesalers
Radio Frequency Systems
Salisbury Engineering
Secom Systems Inc.
Sinclair Technologies Inc.
Spectra Engineering
Sterling Associates Inc.
Talley Communications
Telewave Inc.

TELEWAVE

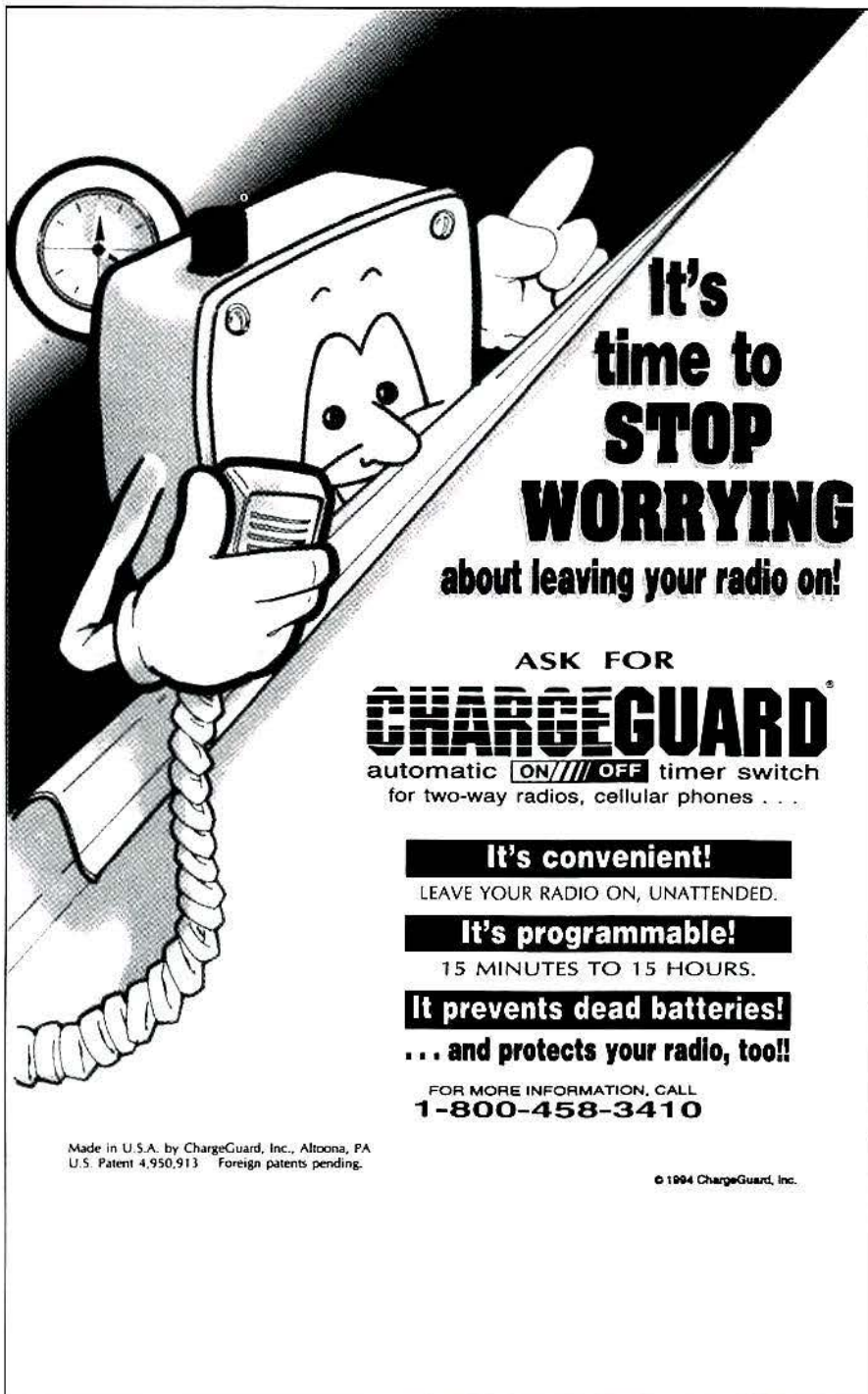
Telewave Inc. designs and manufactures rugged, high-quality wireless system equipment for domestic and international markets, including transmitters, combiners, multicouplers, antennas, filters, and RF power monitors. Our customers include wireless system operators, businesses, public safety providers, local and state governments, and Homeland Security agencies. Telewave supports conventional two-way systems, trunking, cellular, SMR, PCS, paging and broadcast services.

TX RX Systems Inc.

Webster Communications Inc.
Wisco International

Engineering Services

Adams Distributing
ADCOMM Engineering Co.
Allen Telecom Inc.
APREL Laboratories
Beam Radio Inc.
Berkeley Varitronics Systems Inc.
Catalyst Communications
Technologies Inc.
CSI Telecommunications
Engineers
CTA Communications
dBSpectra
DORR Engineering Services Inc.
DX Radio Systems
EJ Dort & Association
EMR
Engineering Associates Inc.
Forest Industries
Telecommunications
Harger Lightning & Grounding
Harris Corp., Intraplex Products
HarTech Inc.
ITV
Kaval Wireless Technologies
Lightning Eliminators &
Consultants
Link Communications Inc.
Macro Corp
Marconi
Mentor Engineering
MIKOM U.S., an Allen Telecom
Co.
Northern Technologies Inc.
PerCon
Professional Systems
RCC Consultants Inc.
Record/Play Tek
RSI
Sabre Communications Corp.
Samlex America, Inc.
Scientific Dimensions
Secom Systems Inc.
Sinclair Technologies Inc.
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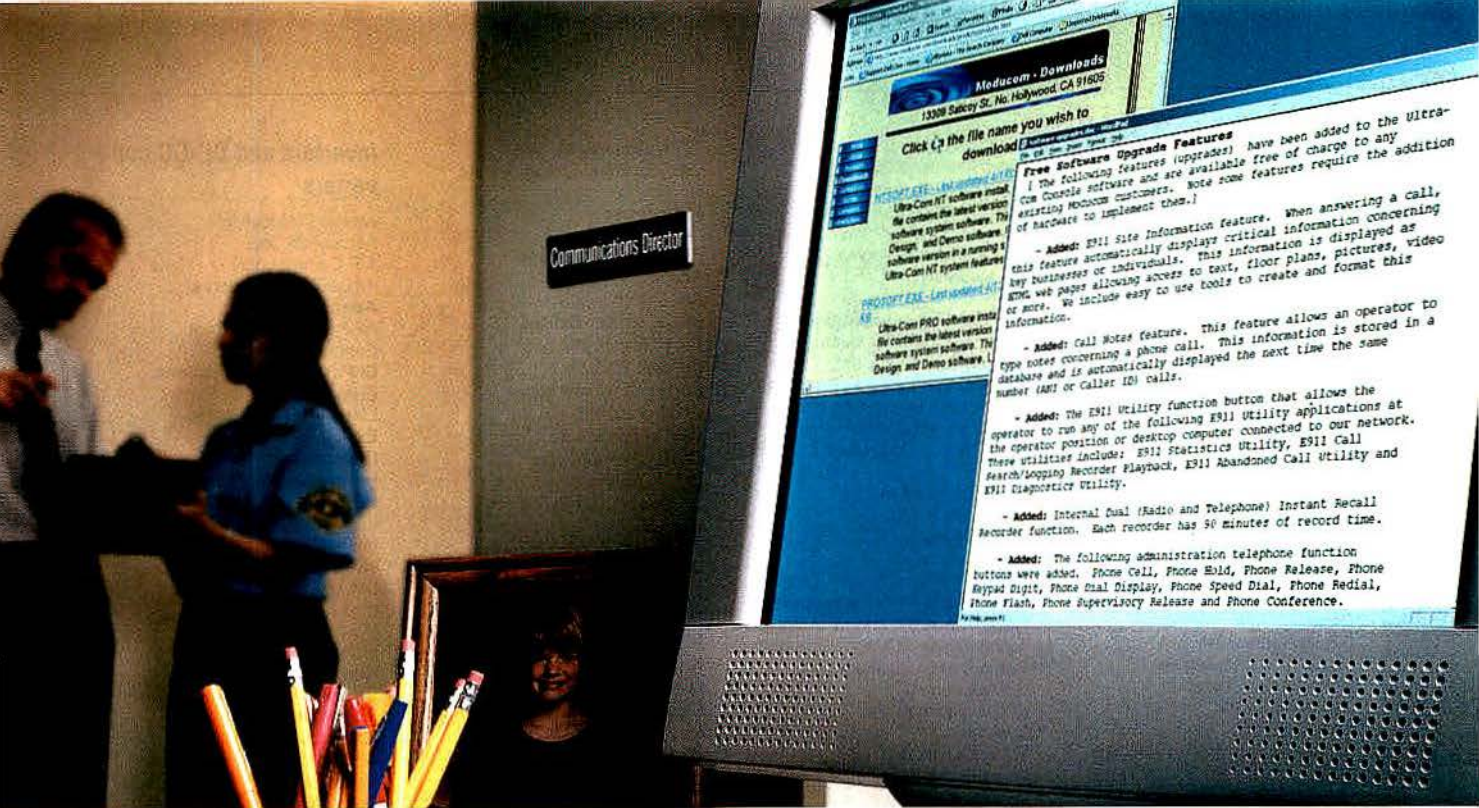
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Communications Director

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The ultimate Free Upgrade: All the software necessary for a complete E911 system. This means you only need to add minimal hardware to obtain a single application radio dispatch and E911 console system.

Radio Recorder Telephone Recorder

Another Free Upgrade – Dual Built-in Instant Recall Recorders (radio and phone) eliminating up to \$5000 worth of hardware per workstation.

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– Automatically generates reports based on system programming – includes System, Card, Relay, Input and other reports.

Report
Card Casing Assignment
Operator Position
Transmit Receive
Tri-Receive
TR-TEL Report
QPL Report
QTI Report
Encode Single Buttons
Relay Buttons
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All of the above

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Tunnel Radio of America
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Vytek Wireless Products Div.
Webster Communications Inc.
Zebryk Engineering

Fiber-optic Cable and Materials

AAT Communications Systems Corp.
A/F CommSupply
Allen Telecom, Inc.
Benelec Pty Ltd.
Burndy Electrical
CommScope Cable Technology Center
CompuSource, Inc.
Hutton Communications
International Fiberoptic Technologies Inc.
Jack Daniel Co.
MIKOM U.S., an Allen Telecom Co.
Polaris Radio
Radial/Larsen Antenna Technologies
RF Connectors (Div. of RF Industries)
RF Neulink (Div. of RF Industries)
Tunnel Radio of America

Filters

Aerocomm, Inc.
A/F CommSupply
Allen Telecom, Inc.
Beam Radio, Inc.
CITEL Surge Protection
Communications Specialists Inc.
Comprod Communications Ltd.
dBSPectra
Decibel Products
EAGLE, Inc.
Electronic Products Inc.
EMR
Filtronetics Inc.
Fiplex Communications Inc.
Hutton Communications
ICT
Jack Daniel Co.
Kathrein, Inc.
L-3 Communications
Lindgren RF Enclosures
Manon Engineering, Inc.
Microwave Filter Co., Inc.
Narda-An L3 Communications Co.
NexTek, Inc.
Piezo Technology, Inc.
Radio Frequency Systems
Salisbury Engineering
Secom Systems Inc.
Sinclair Technologies Inc.
Talley Communications
Telewave, Inc.
Translectric, Inc.
TX RX Systems Inc.

GPS Antennas

A/F CommSupply
Allen Telecom, Inc.
Antenex
Antenna Factor
Antenna Products Phazar Antenna Corp., Phazar Antenna Corp.
Antenna Specialists

Antenna World
Astron Antenna Co.
AVCOM of Virginia, Inc.
Beam Radio, Inc.
Benelec Pty Ltd.
Cimarron Technologies
DH Marketing
DX Radio Systems
El Paso Communications
Electro-Comm Distributors
Electronic Products Inc.
Harris Corp., Intraplex Products
Hirschmann Electronics Inc.
Hutton Communications
L & E Mobile Computers & Mounts Inc.
Lund Industries Inc.
Mobile Mark, Inc.
Nearson, Inc.
PMC Association
Primus Electronics
Quality Mobile Communications
Radial/Larsen Antenna Technologies
Radio Communications
Wholesalers
Secom Systems Inc.
Spectracom
Talley Communications
Webster Communications Inc.
Wisco Int'l.

GPS Receivers

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Beam Radio, Inc.
Benelec Pty Ltd.
Carolina Map Distributors
Dataradio
DX Radio Systems
El Paso Communications
General Communications Inc.
Harris Corp., Intraplex Products
Hutton Communications
ICOM America, Inc.
Jensen Tools
MCM Electronics
Mentor Engineering
Midland Land Mobile Radio
Racom Products Inc.
Radio Communications
Wholesalers
Simulcast Solutions
SmarTrunk Systems Inc.
Spectracom
Talley Communications
Wisco Int'l.

Grounding Systems

A/F CommSupply
Beam Radio, Inc.
Burndy Electrical
CITEL Surge Protection
DX Radio Systems
Electro-Comm Distributors
Electronic Products Inc.
ERI-Electronics Research
Erico, Inc.
Gabriel Electronics
Harger Lightning & Grounding
Harris Corp., Intraplex Products
Hutton Communications
Jackson Telcom, Inc.
Kintronic Labs
Lightning Eliminators & Consultants
Lightning Prevention Systems Inc.
Lyncole XIT Grounding
Northern Technologies Inc.
PowerLink Technologies
Primus Electronics
Ruf*Nek Building Systems

Talley Communications
Webster Communications Inc.

Headsets

Accele Electronics Inc.
Adams Distributing
A/F CommSupply
B&C Communications
Beam Radio, Inc.
Benelec Pty Ltd.
Bogen Communications
GeoTronics Inc.
CTB Wireless Inc.
David Clark Co., Inc.
DH Marketing
DX Radio Systems
Eartec
General Communications Inc.
Harris Corp., Intraplex Products
Herb Kreckman Co.
Hutton Communications
ICOM America, Inc.
Klein Electronics
Mason Electric
Merry Electronics (USA) Co. Ltd.
Metro Tel
MULTICOM
Olympic Radio-LLC
OTTO Communications
PMC Association
Primus Electronics
PRYME Radio Products
Racing Electronics
Radio Communications
Wholesalers
Secom Systems Inc.
Selcom Corp.
Sigtronics
Sonetics Corp.
Talley Communications
Telex Land Mobile Products
Twitco Distributing
Wisco Int'l.

HVAC Systems Shelter

Bard Manufacturing
Dupont Building
Kintronic Labs
Marvail
Ruf*Nek Building Systems

Insurance

Mountain Communications

Interconnects including Message Accounting

Beam Radio, Inc.
Connect Systems Inc.
DH Marketing
General Communications Inc.
Hark Systems Inc.
IDA
JPS Communications Inc.
Link Communications Inc.
Midian Electronics
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Interference Cancellors

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Electro-Comm Distributors
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General Communications Inc.
Hendry Telephone Products
Hutton Communications
ICT
Imark Communications Pty Ltd.
LaMarche Mfg.
Les Wallen USA
Lind Electronics Inc.
Marconi
MCM Electronics
Newmar
PowerLink Technologies
Primus Electronics
Radio Communications
Wholesalers
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Sunelco
Taiyo Yuden (U.S.A.), Inc. Power Systems Group
Talley Communications
Translectric, Inc.
Tripp Lite
ValueTronics Int'l.
Wilmore Electronics Co., Inc.
Wisco Int'l.
Xantrex Technology

Isolators

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dBSPectra
Electro-Comm Distributors
EMR
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Hutton Communications
Jack Daniel Co.
Kintronic Labs
L-3 Communications
Manon Engineering, Inc.
Narda-An L3 Communications Co.
Positron, Inc.
Primus Electronics
Secom Systems Inc.
Sinclair Technologies Inc.
Talley Communications
Telewave, Inc.
TX RX Systems Inc.
Wisco Int'l.

Lightning and Surge Protectors

AC Data Systems
Adams Distributing
Allcom Products
Andrew Corp.
Antenex
Argus Technologies Ltd.
Beam Radio, Inc.
Benelec Pty Ltd.
CITEL Surge Protection
Compuquest
Contact East
Cortana
Delcom Industries
DX Radio Systems

Electro-Comm Distributors
Electronic Products Inc.
ERI-Electronics Research
Erico, Inc.
General Communications Inc.
Harger Lightning & Grounding
Harris Corp., Intraplex Products
HMC Electronics
Hutton Communications
ICT
Jackson Telcom, Inc.
Kintronic Labs
Les Wallen USA
Liebert
Lightning Eliminators & Consultants
Lightning Prevention Systems Inc.
Los Wallen USA
Lyncole XIT Grounding
Manon Engineering, Inc.
Marconi
MCG Surge Protection
MCM Electronics
Microlab/FXR
NexTek, Inc.
Northern Technologies Inc.
Positron, Inc.
PowerLink Technologies
Primus Electronics
Quality Mobile Communications
Radial/Larsen Antenna Technologies
Radio Frequency Systems
RF Connectors (Div. of RF Industries)
RF Neulink (Div of RF Industries)
Sabre Communications Corp.

Samlex America, Inc.
Superior Electric
Talley Communications
Tower Connections
Tripp Lite
Webster Communications Inc.
Wisco Int'l.
Young Design
Zetron

Loads

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Advanced Test Equipment Corp. (ATEC)
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Astrolab
Benelec Pty Ltd.
Bird Electronic Corp.
Coaxial Dynamics
Electro-Comm Distributors
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Emerson & Cuming Microwave Products
EMR
Harris Corp., Intraplex Products
Hutton Communications
Jack Daniel Co.
JFW Industries Inc.
Kathrein, Inc.
Kintronic Labs
MCM Electronics
Microlab/FXR
Narda-An L3 Communications Co.
RF Industries
RF Neulink (Div of RF Industries)

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Sinclair Technologies Inc.
Talley Communications
Telewave, Inc.
Trilithic Wireless
ValueTronics Int'l.
Webster Communications Inc.
Wisco Int'l.

Logging Recorders

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Atis
Compuquest
CVDS, Inc.
DH Marketing
Dictaphone Corp.
Durham Communications Inc.
Dynamic Instruments
EF Johnson
Eventide, Inc.
General Communications Inc.
Harris Corp., Intraplex Products
JEL Communications Recording System
Mentor Engineering
Omicron Electronics
Paging & Wireless Service Ct.
Plant Equipment, Inc.
Primus Electronics
Record/Play Tek
Signal Intelligence
Stancil Corp.

StateLine Communications
Swift Computers
Synetcom Digital
TEAC
Tekno Telecom LLC.
Telescada
VLR Communications
Zetron

Microphones: Base station mics

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Benelec Pty Ltd.
Bogen Communications
Delcom Industries
EF Johnson
General Communications Inc.
Hutton Communications
ICOM America, Inc.
Kenwood Communications
Klein Electronics
Merry Electronics (USA) Co. Ltd.
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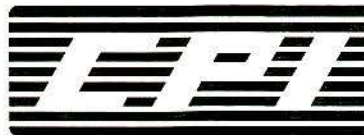


TTP216



TR10-16F

CPI's TR Series- Multi frequency tone remotes and TTP216 tone termination panels can be used to control up to 16 frequencies on many radio systems. The TR Multi-Frequency unit is an EIA standard tone remote available in 4 or 16 frequencies and can be added to existing EIA standard tone systems. Monitor, intercom, front panel PTT, crossmute, and parallel status updating are standard features. Unit available in ash or black. The TTP216 will control up to 16 frequencies on many radio systems and is available with plug-in connectors for many Kenwood, Motorola, and other radio models. For more information on these units or CPI's complete line of DC, Tone, Local Extension, and Multi-channel remotes and termination panels please call us or visit our website.



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Delcom Industries
EF Johnson
EI Paso Communications
General Communications Inc.
Hutton Communications
ICOM America, Inc.
IDA
Kenwood Communications
Klein Electronics
Mason Electric
Merry Electronics (USA) Co. Ltd.
Midian Electronics
MULTICOM
Paging & Wireless Service Ct.
Primus Electronics
PRYME Radio Products
P&W Service Center
Quality Mobile Communications
Radio Communications
Wholesalers
Schaefer Radio
Secom Systems Inc.
Shure Communications Inc.
Talley Communications
Wisco Int'l.

Microphones: Portable mics

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A/F CommSupply

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Benelec Pty Ltd.
David Levy Co. (DLC)
Delcom Industries
EF Johnson
EI Paso Communications
General Communications Inc.
Harris Corp., Intraplex Products
Hutton Communications
ICOM America, Inc.
Kenwood Communications
Klein Electronics
Mason Electric
Merry Electronics (USA) Co. Ltd.
MULTICOM
OTTO Communications
Primus Electronics
PRYME Radio Products
P&W Service Center
Quality Mobile Communications
Racing Electronics
Radio Communications
Wholesalers
Schaefer Radio
Secom Systems Inc.
Shure Communications Inc.
Talley Communications
Twitco Distributing
Wisco Int'l.

Microwave Equipment

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Advanced Test Equipment Corp. (ATEC)
A/F CommSupply
Anritsu

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Carlson Wireless Technologies Inc.
Delcom Industries
DH Marketing
Electronic Products Inc.
Emerson & Cuming Microwave Products
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Gabriel Electronics
Giga-Tronics
Harris Corp., Intraplex Products
Hutton Communications
Marconi
Moseley Associates Inc.
Nearson, Inc.
Nutel Wireless
Olympic Radio-LLC
OPHIR RF
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Sabre Communications Corp.
Simulcast Solutions
Talley Communications
Telemobile
Test Equipment Connection
Tower Structures
ValueTronics Int'l.
Vytex Wireless Products Div.
Wisco Int'l.

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Intergraph Public Safety
ITV
MaSys
Mentor Engineering
Metric Systems Corp.
Midland Land Mobile Radio
MX-COM, Inc.
NetMotion Wireless
New World Systems
Open Software Solutions Inc. (OSS)
Orbacom Communications
Integrator Corp.
Padcom
PEC Solutions Inc.
Public Safety Systems (PSSI)
Quality Mobile Communications
Racom Products Inc.
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RF Neulink (Div of RF Industries)
SmarTrunk Systems Inc.
Spillman Technologies
Synetcom Digital
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Telecommunications Engineering Association
Teledesign Systems
TriTech Software Systems
Viking Technology, Inc. (See PEC Solutions)
VisionAIR, Inc.
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Mobile Data Systems and Message Switches

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AT&T Wireless
Avel-Tech
Beam Radio, Inc.
Data911/Data411 (formerly SunView Mobile)
Dataradio
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DORR Engineering Services Inc.
ECOM Systems
EF Johnson
EJ Dort & Association
Esteem Wireless Modems
General Communications Inc.
Hark Systems Inc.
Hyde Co.
IDA
Indico Corp.

Mobile Data Terminals

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AT&T Wireless
Beam Radio, Inc.
Comm-Net 2000 Manufacturing
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Dataradio
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- Programmable with compatible KVL – no need to only utilize the built-in test keys
- ASTRO™ trunking with both VSELP and IMBE vocoders

- Project 25 digital trunking with support for Linear Simulcast Modulation (LSM) – flash upgrade to system release 6.1 coming soon

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SMC - Signal Measurement Corp.
Synetcom Digital
Talley Communications
Viziflex Seels
Wisco Int'l.
Zebryk Engineering

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Andrew Corp.
Klein Electronics
MCM Electronics
Mobile Satellite Ventures
Telemobile

Modems RF

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A/F CommSupply
Barnett Engineering
Beam Radio, Inc.
Data Burst Technologies Inc.
Dataradio
DM Data Corp.
DORR Engineering Services Inc.
Eagle Wireless Int'l.

ECOM Systems
EF Johnson
Esteem Wireless Modems
FreeWave Technologies
Harris Corp., Intralex Products
Kantronics
Link Communications Inc.
Metric Systems Corp.
Midian Electronics
Moseley Associates Inc.
MX-COM, Inc.
Nutel Wireless
Pacific Crest Corp.
Quality Mobile Communications
RF Industries
RF Neulink (Div of RF Industries)
RF Technology
SGC, Inc.
Spectra Engineering
Synetcom Digital
Talley Communications
Teledesign Systems
Vytex Wireless Products Div.
Young Design
Zebryk Engineering

Hardware


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A/F CommSupply
American Towers & Structures Inc.
Antenex
Astron Antenna Co.
Beam Radio, Inc.
Benelec Pty Ltd.

Cruisers Inc.
Datalux
Delcom Industries
DM Data Corp.
El Paso Communications
Electro-Comm Distributors
Engineered Endeavors Inc.
ERI-Electronics Research
E TIP, Inc.
Gabriel Electronics
Gamber-Johnson
General Communications Inc.
Havis-Shields Equipment Corp.
Hutton Communications
Jackson Telcom, Inc.
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Inc.
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Middle Atlantic Products
NCG/COMET Antenna
Nearson, Inc.
Northern Technologies Inc.
Olympic Radio-LLC
Primus Electronics
Quality Mobile Communications
Radial/Larsen Antenna
Technologies
Sabre Communications Corp.
Samco Antennas Inc.
Scientific Dimensions

Sinclair Technologies Inc.
SMC - Signal Measurement Corp.
Sunelco
Talley Communications
Tower Structures
Towertek Industries Inc.
Troy Products
Utility Tower
Wisco Int'l.

Multicouplers

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Beam Radio, Inc.
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Comprod Communications Ltd.
dB Spectra
Electronic Products Inc.
EMR
Fiplex Communications Inc.
Hutton Communications
Jack Daniel Co.
L-3 Communications
Microlab/FXR
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Salisbury Engineering
Secom Systems Inc.
Sinclair Technologies Inc.
Sterling Associates Inc.
Talley Communications
Telewave, Inc.



YOUR

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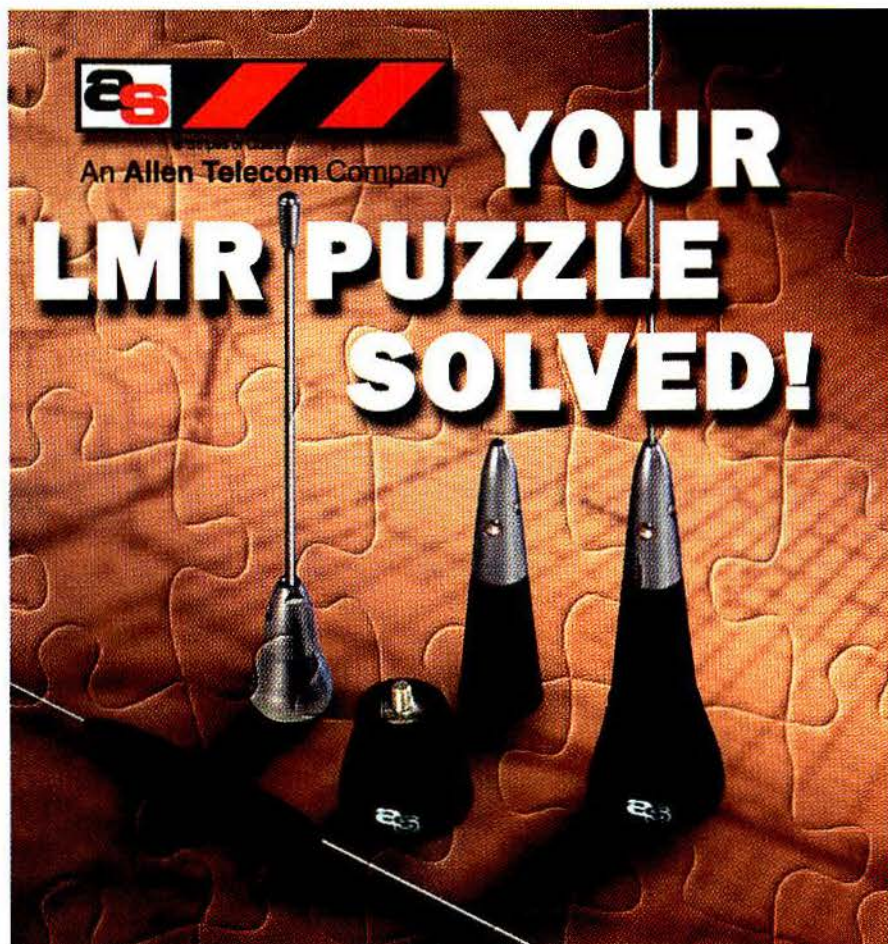
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Wisco Int'l.

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Data Burst Technologies Inc.
Esteem Wireless Modems
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ICOM America Inc.
Kantronics
LOCSYS Inc.
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MULTICOM
OPHIR RF
Pyramid Communications
Quality Mobile Communications
RF Neulink (Div of RF Industries)
SGC Inc.
Synetcom Digital
Talley Communications
Tekk Inc.
Teledesign Systems
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Pagers

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Delcom Industries
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General Communications Inc.
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Herb Kreckman Co.
L-Tronics
Leavitt Communications Inc.
Mountain Communications
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Olympic Radio-LLC
PageRepair
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PMC Association
Smith Communications Service
Tekk, Inc.
VCP International
Veetronix, Inc.

Vytek Wireless Products Div.
Wisco International

Paging Terminals

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Leavitt Communications Inc.
Midian Electronics
Olympic Radio-LLC
VCP International
Vytek Wireless Products Div.
Wisco International
Zetron

Paging Transmitters

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Berkeley Varitronics Systems Inc.
CTI, Inc.
DX Radio Systems
Eagle Wireless International
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Leavitt Communications Inc.
Olympic Radio-LLC
OPHIR RF
PMC Association
RF Industries
RF Technology
Spectra Engineering
Spectrum Communications
Talley Communications
Tekk, Inc.
VCP International
Vytek Wireless Products Div.
Wisco International

Power Monitors (RF)

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Anritsu
Bird Electronic Corp.
Coaxial Dynamics
EI Paso Communications
Marconi
Narda Safety Test Solutions
Narda-An L3 Communications Co.
PageTek
Secom Systems Inc.
Sinclair Technologies Inc.
Telewave Inc.
Wisco International
Z-Technology

Power Supplies

Accele Electronics Inc.
Adams Distributing
Adcour
Advanced Receiver Research
Advanced Test Equipment Corp.
(ATEC)
AdvancedTec Industries
AEMC Instruments
A/F CommSupply
Allen Telecom, Inc.
Amrel Systems Inc.
Argus Technologies Ltd.
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Beam Radio, Inc.
Benelec Pty Ltd.
Contact East
Crescent Technologies
CVDS, Inc.
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Electro-Comm Distributors
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MCM Electronics
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ValueTronics International
Webster Communications Inc.
Wilmore Electronics Co., Inc.
Wisco International

Preamplifiers

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Advanced Receiver Research
Advanced Test Equipment Corp.
(ATEC)

Aerocomm, Inc.
A/F CommSupply
Beam Radio, Inc.
Bogen Communications
dB Spectra
Delcom Industries
EI Paso Communications
Electronic Products Inc.
EMR
Fiplex Communications Inc.
Jack Daniel Co.
MIKOM U.S., an Allen Telecom Co.
Salisbury Engineering
Secom Systems Inc.
TX RX Systems Inc.
Wisco International

Programmers NAM, PROM and Others

HMC Electronics
Polaris Radio
Roadrunner Communications
VCP International

Racks Equipment

Adams Distributing
A/F CommSupply
Bud Industries
Cruisers Inc.
dB Spectra
DH Marketing
DX Radio Systems
Electro-Comm Distributors
EMR
General Communications Inc.
Hendry Telephone Products
Hutton Communications
Imark Communications Pty Ltd.
Jackson Telecom, Inc.
Jon/Beau, Inc.
Kintronic Labs
Liebert
Marconi
MCM Electronics
Middle Atlantic Products
Newmar
Northern Technologies Inc.
Olympic Radio-LLC
Polaris Radio
Primus Electronics
Scientific Dimensions
Secom Systems Inc.
Sinclair Technologies Inc.
Talley Communications
Telewave, Inc.
Troy Products
ValueTronics International
Wisco International

Radios - See Repeaters Transceivers

Adams Distributing
Advanced Test Equipment Corp.
(ATEC)
Beam Radio, Inc.
Datron World Communications
Delcom Industries
DH Marketing
DX Radio Systems
Eartec
EI Paso Communications
4RF Communications Ltd.
General Communications Inc.
Hill Radio Communications
ICOM America, Inc.
Kantronics
Kenwood Communications
Klein Electronics
Motorola

MULTICOM
Pacific Crest Corp.
Paging & Wireless Service Ct.
Procomm USA
Quality Mobile Communications
Racing Electronics
Radio Communications
Wholesalers
Radio Wholesale
RCW Distributing
Reim Wireless Corp.
RF Neulink (Div of RF Industries)
RF Technology
Ritron, Inc.
Secom Systems Inc.
SGC, Inc.
Spectra Engineering
StateLine Communications
Talley Communications
Tekk, Inc.
Thunder Eagle, Inc.
Unita Communications
Vertex Standard
Wisco International
Young Design

Remote Control, Tone, DC and Others

Adams Distributing
A/F CommSupply
Air Comm
B&C Communications
Beam Radio, Inc.
Berkeley Varitronics Systems Inc.
Catalyst Communications
Technologies Inc.
Compuquest
CPI Communications Inc.
CTI Products Inc.
CTI, Inc.
Delcom Industries
DX Radio Systems
Eagle Wireless International
El Paso Communications
Electro-Comm Distributors
Electronic Products Inc.
GAI-Tronics Corp.
Genave/NRC, Inc.
General Communications Inc.
Hamtronics
Harris Corp., Intraplex Products
IDA
Kantronics
Manon Engineering, Inc.
Marconi

MCM Electronics
Midian Electronics
Moseley Associates Inc.
NHRC
NorComm Corp.
Olympic Radio-LLC
Quality Mobile Communications
Racom Products Inc.
S-COM, LLC
Secom Systems Inc.
Selectone
Signal Intelligence
SmartLink Radio Networks Inc.
Smith Communications Service
Spectrum Communications
Talley Communications
Telecadia
Telewave, Inc.
Transcendent
Webster Communications Inc.
Wisco International
Zetron

Repeater Control Equipment

AAT Communications Systems Corp.
Adams Distributing
Allen Telecom, Inc.
B&C Communications
Beam Radio, Inc.
Bravo Tech, Inc.
Catalyst Communications
Technologies Inc.
Comm-Net 2000 Manufacturing
Communications Specialists Inc.
Compuquest
Connect Systems Inc.
CSC Power Systems
CTI Products Inc.
CW Wolfe Communications
Delcom Industries
Doug Hall Electronics
DX Radio Systems
EF Johnson
El Paso Communications
General Communications Inc.
Hamtronics
IDA
Kenwood Communications
KR Nida Corp.
Link Communications Inc.
Midian Electronics
MIKOM U.S., an Allen Telecom Co.
NHRC

Olympic Radio-LLC
Pacific Crest Corp.
Pyramid Communications
Quality Mobile Communications
Radio Communications
Wholesalers
Radio Wholesale
RF Neulink (Div of RF Industries)
S-COM, LLC
Secom Systems Inc.
Selectone
SmartLink Radio Networks Inc.
Spectrum Communications
Sterling Associates Inc.
Talley Communications
Telemobile
Transcendent
Transcript International
Webster Communications Inc.
Wisco International
Zetron

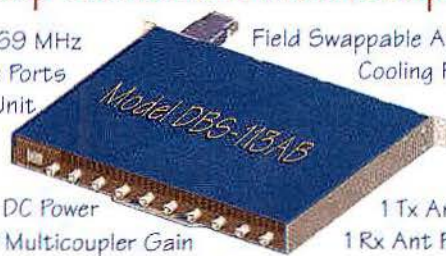
Repeaters: Base

AAT Communications Systems Corp.
Adams Distributing
Aerocomm, Inc.
Air Comm
Allen Telecom, Inc.
Andrew Corp.
Antenna Specialists
B&C Communications
Beam Radio, Inc.
Bravo Tech, Inc.
Comm-Net 2000 Manufacturing
CSC Power Systems
Daniels Electronics Ltd.

Delcom Industries
DH Marketing
DX Radio Systems
EF Johnson
Futurecom Systems Group, Inc.
Gabriel Electronics
General Communications Inc.
Hamtronics
Herb Kreckman Co.
Hill Radio Communications
ICOM America, Inc.
Imark Communications Pty Ltd.
Kenwood Communications
KR Nida Corp.
Manon Engineering, Inc.
MIKOM U.S., an Allen Telecom Co.
Mountain Communications
MULTICOM
Olympic Radio-LLC
OPHIR RF
Pacific Crest Corp.
PMC Association
Pyramid Communications
Quality Mobile Communications
Racing Electronics
Radio Communications
Wholesalers
RCW Distributing
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RF Neulink (Div of RF Industries)
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Talley Communications
Telemobile
Unita Communications
Vertex Standard
Wisco International

Repeaters: Crossband

AAT Communications Systems Corp.
Adams Distributing
Aerocomm, Inc.
Andrew Corp.
B&C Communications
Beam Radio, Inc.
Comm-Net 2000 Manufacturing
Daniels Electronics Ltd.
DH Marketing
DX Radio Systems
EF Johnson
Futurecom Systems Group, Inc.
Gabriel Electronics
General Communications Inc.
Hamtronics
Hill Radio Communications
ICOM America, Inc.
Imark Communications Pty Ltd.
KR Nida Corp.
Manon Engineering, Inc.
MIKOM U.S., an Allen Telecom Co.
Mountain Communications
MULTICOM
Olympic Radio-LLC

PMC Association
Pyramid Communications
Quality Mobile Communications
Racing Electronics
Radio Communications
Wholesalers
Relm Wireless Corp.
RF Neulink (Div of RF Industries)
RF Technology
Schaefer Radio
Secom Systems Inc.
Spectra Engineering
Spectrum Communications
Talley Communications
Telemobile
Unita Communications
Vertex Standard
Wisco International

Repeaters: Mobile

AAT Communications Systems Corp.
Adams Distributing
Advanced Communications & Electronics Inc.
Aerocomm, Inc.
Air Comm
Allen Telecom, Inc.
Andrew Corp.
B&C Communications
Beam Radio, Inc.
Comm-Net 2000 Manufacturing
CSC Power Systems
Delcom Industries
EF Johnson
Futurecom Systems Group, Inc.

General Communications Inc.
Hill Radio Communications
ICOM America, Inc.
Imark Communications Pty Ltd.
Jack Daniel Co.
KR Nida Corp.
Manon Engineering, Inc.
MIKOM U.S., an Allen Telecom Co.
Mountain Communications
MULTICOM
Olympic Radio-LLC
OPHIR RF
Pacific Crest Corp.
PMC Association
Pyramid Communications
Quality Mobile Communications
Racing Electronics
Radio Communications
Wholesalers
RCW Distributing
Relm Wireless Corp.
RF Neulink (Div of RF Industries)
Ritron, Inc.
Schaefer Radio
Secom Systems Inc.
Sentry Services International
Talley Communications
Telemobile
Unita Communications
Vertex Standard
Wisco International

Repeaters: Portable

AAT Communications Systems Corp.
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Aerocomm, Inc.

A/F CommSupply
Air Comm
Andrew Corp.
Beam Radio, Inc.
Comm-Net 2000 Manufacturing
Daniels Electronics Ltd.
Delcom Industries
DX Radio Systems
EF Johnson
General Communications Inc.
Hill Radio Communications
ICOM America, Inc.
Imark Communications Pty Ltd.
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Manon Engineering, Inc.
Mountain Communications
Olympic Radio-LLC
Pyramid Communications
Quality Mobile Communications
Radio Communications
Wholesalers
RCW Distributing
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Durham Communications Inc.
DX Radio Systems
Eagle Wireless International
4RF Communications Ltd.
Gabriel Electronics
GRE America
Hamtronics
Harris Corp., Intraplex Products
IDA
Imark Communications Pty Ltd.
Kantronics
Manon Engineering, Inc.
Metric Systems Corp.
Monitor Electronics
Moseley Associates Inc.
MULTICOM
Nutel Wireless
Olympic Radio-LLC
OPHIR RF
Pyramid Communications
Quality Mobile Communications
RF Industries
RF Neulink (Div of RF Industries)
RF Technology
Ritron, Inc.
Simulcast Solutions
SmartLink Radio Networks Inc.
Spectra Engineering
Spectrum Communications
Synetcom Digital
Telemobile
VisionAIR, Inc.
Wisco International
Young Design
Zebryk Engineering

Scanning Receivers (Scanners)

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Beam Radio, Inc.
Berkeley Varitronics Systems Inc.
Data Burst Technologies Inc.
Delcom Industries
Herb Kreckman Co.
ICOM America, Inc.
MCM Electronics
Mountain Communications
NSI Communication, Inc.
Optoelectronics
Racing Electronics
Spectra Engineering
Synetcom Digital
Talley Communications
Thunder Eagle, Inc.
Wireless Telecom
Wisco International

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Eartec
EF Johnson
El Paso Communications
Imark Communications Pty Ltd.
Midian Electronics
MX-COM, Inc.
NorComm Corp.
Quality Mobile Communications
Radio Communications
Wholesalers
RCW Distributing
Selectone
Synetcom Digital
Talley Communications
Thales Communications Inc.
Transcrypt International
Wisco International

Service Manuals

Air Comm
Beam Radio, Inc.
El Paso Communications
Fryer's Site Guide and Tower
Source
Institute for Wireless Education
MCM Electronics
MIKOM U.S., an Allen Telecom
Co.
Wisco International

Services: Accounting and Billing

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Computer Resources
Intrado, Inc.
John Mitchell

Marconi
Service Level Corp.
Services: Brokerage

Daniels & Association

Services: Consultants

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The Advertising Consortium
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Alexander Resources
Antenna ID Products
APREL Laboratories
Cell Train dba Performance
Strategies Inc.
ComTrain
CSI Telecommunications
Engineers
CTA Communications
Eagle Wireless International
E Comm International
EJ Dort & Association
EMR
Engineering Associates Inc.
Forest Industries
Telecommunications
Fox Ridge Communications Inc.
Frederick G Griffin PC
General Communications Inc.
HarTech, Inc.
Institute for Disabilities Research &
Training
Intergraph Public Safety
Intrado, Inc.
ITV
John J Davis & Associates
KR Nida Corp.
L & E Mobile Computers & Mounts
Inc.
Lawrence Behr Associates Inc.
Lawrence Personnel
Leach Mounce Architects
Lightning Eliminators &
Consultants
Link Communications Inc.

Macro Corp
Marconi
Mobile Systems International, Inc.
Olympic Radio-LLC
Omnicom
PEC Solutions Inc.
PerCon
Plant Equipment, Inc.
Public Safety Consultants Inc.
RCC Consultants Inc.
RFYellow
RightCo
RSI
Samlex America, Inc.
SmartLink Radio Networks Inc.
Software Concepts Inc.
SpaceCom Systems
Synetcom Digital
Technology Futures
Telecommunications Engineering
Association
Telewave, Inc.
The Shostack Group
Tower Structures
Transcom Corp.
Trott Communications Group
Viking Technology, Inc. (See PEC
Solutions)
Wisco International
Zebryk Engineering

Services: Equipment

AC-DC Industries Inc.
Andrew Corp.
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Tekno Telecom LLC.
Tower Structures
Unita Communications
ValueTronics International

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Adams Distributing
Advanced Labeling Solutions
Advanced Communications & Electronics Inc.
Beam Radio, Inc.
Delcom Industries
DW Electrochemicals Ltd.
ECOM Systems
EI Paso Communications
General Communications Inc.
Imark Communications Pty Ltd.
KR Nida Corp.
Minilec Service
MULTICOM
PageRepair
P&W Service Center
Radio Communications
Wholesalers
RF Imaging & Communications
RFYellow
Smith Communications Service
StateLine Communications
Telewave, Inc.
Unita Communications
ValueTronics International

Services: FCC Rules and Regulations

ADCOMM Engineering Co.
American Mobile
Telecommunications Association
Antenna ID Products
APREL Laboratories
ComTrain
CSI Telecommunications Engineers
CTA Communications
Delcom Industries
Forest Industries
Telecommunications
Fox Ridge Communications Inc.
Lawrence Behr Associates Inc.
Macro Corp
Narda Safety Test Solutions
PerCon
RCC Consultants Inc.
Slattery Software

Services: Service Monitor Repair and Calibration

Advanced Communications & Electronics Inc.
EI Paso Communications
Electronic Products Inc.
IFR
Marconi
RF Imaging & Communications
Tekno Telecom LLC.
Wisco International

Services: Software Development

Analog & Digital Peripherals Inc.
Cadex Electronics Inc.
Catalyst Communications
Technologies Inc.
Compuquest
Computer Resources
Cromack Industries Inc.
Data Burst Technologies Inc.
DCC (Dialogic Communications Corp.)
EI Paso Communications
EMR
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Institute for Disabilities Research & Training
Intergraph Public Safety
Intrado, Inc.
ITN ServicePlus
KR Nida Corp.
Mobile Systems International, Inc.
New World Systems
PEC Solutions Inc.
PerCon
Plant Equipment, Inc.
Public Safety Systems (PSSI)
Pyramid Communications
RadioSoft
RCC Consultants Inc.
RFYellow
Sentry Services International
Service Level Corp.
Signal Intelligence
Software Concepts Inc.
SoftWright
Spillman Technologies
Synetcom Digital
Telecommunications Engineering Association
TriTech Software Systems
Viking Technology, Inc. (See PEC Solutions)
Zebryk Engineering

Services: Technician Training

Andrew Corp.
Cell Train dba Performance Strategies Inc.
ComTrain
EJ Dort & Association
EI Paso Communications
Institute for Disabilities Research & Training
Institute for Wireless Education
ITV
Marconi
Personal Communications Industry Ass'n.
Plant Equipment, Inc.
Ridgewater College
RSI
SoftWright
Webster Communications Inc.

Services: Tower Installation

AAT Communications Systems Corp.
American Towers & Structures Inc.
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Delcom Industries
Hill Radio Communications
ITV
JMS & Associates Inc.
Mobile Systems International, Inc.
Olympic Radio-LLC
ROHN Industries Inc.
Sabre Communications Corp.
Sioux Falls Tower Specialists Inc.
Spectrasite Broadcast Grove

Stainless Inc.
StateLine Communications
Swager Communications
Tower Connections
Tower Structures
Tower Systems Inc.
Transcom Corp.
Unita Communications
Utility Tower
Webster Communications Inc.

Services: Tower Space Rental

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Antenna Sites
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General Communications Inc.
Hill Radio Communications
ITV
JMS & Associates Inc.
John J Davis & Associates
Mobile Systems International, Inc.
Olympic Radio-LLC
RCC Consultants Inc.
Spectrasite Broadcast Grove
Stainless Inc.
StateLine Communications
TowerMaps
Transcom Corp.
Unita Communications

Shelters

A/F CommSupply
Aluma Tower Co. Inc.
American Towers & Structures Inc.
Andrew Corp.
Delcom Industries
DH Marketing
Dupont Building
Electronic Products Inc.
Enviro-Buildings
Fibrebond Corp.
Hartford Concrete Products
Hill Radio Communications
Kintronic Labs
Marconi
Olympic Radio-LLC
PowerLink Technologies
Primus Electronics
Professional Systems
Ruf'Nek Building Systems
Sabre Communications Corp.
Sinclair Technologies Inc.
Swift Textile Metalizing, LLC.
Tower Structures
Wisco International

Shielded Enclosures and Accessories

Acheson Colloids
Advanced Communications & Electronics Inc.
Bud Industries
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Hendry Telephone Products
Kintronic Labs
Lindgren RF Enclosures
Marconi
Northern Technologies Inc.
PowerLink Technologies
Spectrum Communications
Swift Textile Metalizing, LLC.
Talley Communications
ValueTronics International

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Communications Specialists Inc.
Compuquest
Cromack Industries Inc.
CTI Products Inc.
dBSpectra
EF Johnson
Electronic Products Inc.
Genave/NRC, Inc.
GRE America
InFoRad
Kantronics
Manon Engineering Inc.
Midian Electronics
MX-COM Inc.
NorComm Corp.
PageTek
Pyramid Communications
RF Industries
S-COM, LLC
Selectone
Simulcast Solutions
SmartLink Radio Networks Inc.
Synetcom Digital
Zebryk Engineering
Zetron

Simulcast Systems

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Durham Communications Inc.
DX Radio Systems
Eagle Wireless International
EF Johnson
EJ Dort & Association
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Intrado, Inc.
Kantronics
Olympic Radio-LLC
Racom Products Inc.
Simulcast Solutions
SmartLink Radio Networks Inc.
Spectracom
Spectrum Communications
Vytek Wireless Products Div.
Zetron

Site Construction Services

American Towers & Structures Inc.
Antenna ID Products
CTA Communications
Delcom Industries
DX Radio Systems
ERI-Electronics Research
ITV
JMS & Associates Inc.
Macro Corp
Marconi
Motorola
Professional Systems
ROHN Industries Inc.
RSI
Ruf'Nek Building Systems
Sabre Communications Corp.
Sioux Falls Tower Specialists Inc.
Sitemaster
Swager Communications
Tower Systems Inc.
Unita Communications
Webster Communications Inc.

Software: Business

Andrew Corp.
ARIS Software Inc.
Cell Train dba Performance Strategies Inc.
Computer Resources
DCC (Dialogic Communications Corp.)

The Genesis Group
Innovative Maintenance Systems
ITN ServicePlus
John Mitchell
PEC Solutions Inc.
Public Safety Systems (PSSI)
Service Level Corp.
Slattery Software
Zebryk Engineering

Software: Engineering, Technical and Equipment-Related

Aerocomm Inc.
Andrew Corp.
Berkeley Varitronics Systems Inc.
Cadex Electronics Inc.
Cell Train dba Performance Strategies Inc.
Compuquest
Cromack Industries Inc.
Direct Communications International, Inc.
DORR Engineering Services Inc.
EDX Division Comarco Wireless Technologies
Fox Ridge Communications Inc.
Futurecom Systems Group, Inc.
Hyde Co.
Innovative Maintenance Systems
ITN ServicePlus
Lawrence Behr Associates Inc.
LPKF Laser & Electronics
Marconi
Middle Atlantic Products

Mobile Systems International Inc.
Narda-An L3 Communications Co.
Olympic Radio-LLC
PerCon
Plant Equipment Inc.
Public Safety Systems (PSSI)
RadioSoft
RCC Consultants Inc.
Record/Play Tek
RFYellow
RSI
Secom Systems Inc.
Sentry Services International
Signal Intelligence
Sitemaster
Slattery Software
Software Concepts Inc.
SoftWright
Spirent Communications-TAS Div.
Survey Technologies
Synetcom Digital
Telecommunications Engineering Association
Telescada
TriTech Software Systems
Wireless Telecom
Wireless Valley Communications Inc.
Zebryk Engineering

Software: Topographic

Carolina Map Distributors
East View Cartographic
ESRI
Mobile Systems International, Inc.

PerCon
Plant Equipment, Inc.
RadioSoft
SoftWright
Synetcom Digital
Wireless Telecom
Zebryk Engineering

Soldering, Desoldering and Surface-Mount Repair Equipment

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HMC Electronics
Jensen Tools
LPKF Laser & Electronics
MCM Electronics
MM Newman/Antex Div.
RF Imaging & Communications

Speakers

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Bogen Communications
David Levy Co. (DLC)
Delcom Industries
Electro-Comm Distributors
Harris Corp., Intraplex Products
Herb Kreckman Co.
MCM Electronics
Merry Electronics (USA) Co. Ltd.
Primus Electronics

Secom Systems Inc.
Talley Communications
Twitco Distributing
Unita Communications
Whelen Engineering
Wisco International

Station Identifiers

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Autocode
Beam Radio, Inc.
Communications Specialists Inc.
Control Signal
Delcom Industries
Electro-Comm Distributors
Imark Communications Pty Ltd.
Midlan Electronics
NHRC
Pipo Communications
Quality Mobile Communications
Racom Products Inc.
Selectone
Spectrum Communications

Status Alarm Systems

Barnett Engineering
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Ritron, Inc.
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Tekno Telecom LLC.
Vytex Wireless Products Div.
Zetron

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dB Spectra
DM Data Corp.
DORR Engineering Services Inc.
Durham Communications Inc.
ECOM Systems
EJ Dort & Association
EmergiTech
Engineering Associates Inc.



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Global Software Corp.
Harris Corp., Intralex Products
InterACT Public Safety Systems
ITV
JFW Industries Inc.
Kaval Wireless Technologies
Macro Corp
Marconi
Mentor Engineering

Northern Technologies Inc.
Orbacom Communications
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PEC Solutions Inc.
Plant Equipment, Inc.
Public Safety Systems (PSSI)
Quality Mobile Communications
RCC Consultants Inc.
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ECOM Systems
Mentor Engineering

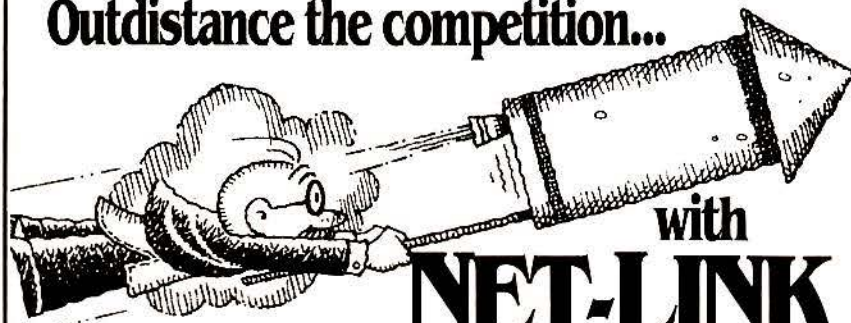
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Advanced Test Equipment Corp. (ATEC)
AdvancedTec Industries
AdvanceTec Industries Inc.
AEA Wireless
A/F CommSupply
Anritsu Co.
Astro-Med
AVCOM of Virginia Inc.
Beam Radio Inc.
Bird Electronic Corp.
Hark Systems Inc.
Hutton Communications
IFR
JFW Industries Inc.
Manon Engineering, Inc.
PMC Association
RF Imaging & Communications
Samlex America, Inc.
Spirent Communications-TAS Div.
Tektronix
ValueTronics International
Wisco International

Test Equipment: Cable Fault Locators

Advanced Test Equipment Corp. (ATEC)
AEA Wireless
Anritsu
Anritsu Co.
AVO International
Berry Test Sets
Brunelle Instruments
Contact East
DH Marketing
EAGLE, Inc.
Electronic Products Inc.
HMC Electronics
Independent Technologies
Metro Tel
PMC Association
Proctor & Associates Inc.
RF Imaging & Communications
Riser Bond Instruments
Secom Systems Inc.
Talley Communications
Tektronix
ValueTronics International

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Test Equipment: Directional Couplers

Advanced Communications & Electronics Inc.
Advanced Test Equipment Corp. (ATEC)
AEA Wireless
Anritsu Co.
Beam Radio, Inc.
Bird Electronic Corp.
Coaxial Dynamics
EAGLE, Inc.
Fiplex Communications Inc.
Hutton Communications
Jack Daniel Co.
Manon Engineering, Inc.
RF Imaging & Communications
ValueTronics International

Test Equipment: Field Testing (RF)

AW Sperry Instruments
Advanced Test Equipment Corp. (ATEC)
AEA Wireless
Aerocomm, Inc.
Allen Telecom, Inc.
Anritsu
Anritsu Co.
APREL Laboratories
AVCOM of Virginia, Inc.
Beam Radio, Inc.
Berkeley Varitronics Systems Inc.
Bird Electronic Corp.
Catalyst Communications Technologies Inc.
El Paso Communications
IFR
Jack Daniel Co.
Manon Engineering, Inc.
Marconi
Narda Safety Test Solutions
Narda-An L3 Communications Co.
Optoelectronics
RCC Consultants Inc.
RF Imaging & Communications
Signal Intelligence
Survey Technologies
Talley Communications
Tektronix
ValueTronics International
Wireless Telecom
Wisco International

Test Equipment: Frequency Counters

Advanced Communications & Electronics Inc.
Advanced Test Equipment Corp. (ATEC)
Anritsu Co.
Beam Radio, Inc.
Berry Test Sets
Brunelle Instruments
Contact East
El Paso Communications
HMC Electronics
Hutton Communications
Independent Technologies
MCM Electronics
Metro Tel
Optoelectronics
RF Imaging & Communications
Synetcom Digital
ValueTronics International
Wisco International

Test Equipment: Generators Tone and RF Signal

AW Sperry Instruments
Advanced Communications & Electronics Inc.
Advanced Test Equipment Corp. (ATEC)
AEA Wireless
A/F CommSupply
Anritsu
Anritsu Co.
Beam Radio, Inc.
Berry Test Sets
Contact East
Cromack Industries Inc.
El Paso Communications
Giga-tronics
HMC Electronics
IFR
Independent Technologies
Jensen Tools
MCM Electronics
Metro Tel
Proctor & Associates Inc.
RF Imaging & Communications
Synetcom Digital
Talley Communications
Test Equipment Connection
ValueTronics International
Wisco International

Test Equipment: Modulation Deviation Meters

Advanced Test Equipment Corp. (ATEC)
Anritsu Co.
Beam Radio, Inc.
El Paso Communications
RF Imaging & Communications
ValueTronics International
Wisco International

Test Equipment: Service Monitors and Modulation Deviation Meters

Advanced Test Equipment Corp. (ATEC)
A/F CommSupply
Anritsu Co.
Beam Radio, Inc.
Compuquest
DH Marketing
El Paso Communications
General Dynamics Decision Systems

GENERAL DYNAMICS Decision Systems

General Dynamics Decision Systems based in Scottsdale Ariz., provides products and systems for information assurance, integrated communication and situational awareness for defense and industrial customers in the U.S. and abroad. General Dynamics manufactures communications test equipment including the R2600 family of communication systems analyzers.

Hark Systems Inc.
Hutton Communications
IFR
PMC Association
RF Imaging & Communications
Signal Intelligence
Talley Communications
Tekno Telecom LLC.
Test Equipment Connection
ValueTronics International
Wayne Kerr Electronics Inc.
Wisco International
Z-Technology

Test Equipment: SINAD Meters

Advanced Communications & Electronics Inc.
Advanced Test Equipment Corp. (ATEC)
Beam Radio, Inc.
El Paso Communications
RF Imaging & Communications
Survey Technologies
Talley Communications
ValueTronics International
Wayne Kerr Electronics Inc.
Wisco International

Test Equipment: SWR Measuring Devices and Meters

Advanced Communications & Electronics Inc.
Advanced Test Equipment Corp. (ATEC)
AEA Wireless
Anritsu
Anritsu Co.
Beam Radio, Inc.
Benelec Pty Ltd.
Berkeley Varitronics Systems Inc.
Coaxial Dynamics
Compuquest
EAGLE, Inc.
El Paso Communications
Electronic Products Inc.
Giga-tronics
Hutton Communications
LDG Electronics
MCM Electronics
Narda-An L3 Communications Co.
PMC Association
RF Imaging & Communications
Secom Systems Inc.
Talley Communications
Tektronix
Telewave, Inc.
ValueTronics International
Wisco International
Z-Technology

Test Equipment: Telephone Line Test Meters

AW Sperry Instruments
Advanced Test Equipment Corp. (ATEC)
AVO International
Beam Radio, Inc.
Berry Test Sets
Brunelle Instruments
Contact East
HMC Electronics
Independent Technologies
Metro Tel
Proctor & Associates Inc.
RF Imaging & Communications
Simulcast Solutions
ValueTronics International

Test Equipment: Wattmeters

Advanced Communications & Electronics Inc.
Advanced Test Equipment Corp. (ATEC)
Beam Radio, Inc.
Bird Electronic Corp.
El Paso Communications
Electronic Products Inc.
Hutton Communications
Primus Electronics
RF Connectors (Div. of RF Industries)
RF Imaging & Communications
RF Neulink (Div. of RF Industries)
Secom Systems Inc.
Talley Communications
Telewave, Inc.
ValueTronics International
Wisco International

Tower Lighting

A/F CommSupply
American Towers & Structures Inc.
Antenna ID Products
Compuquest
Delcom Industries
Doty Moore
Harris Corp., Intraplex Products
Hill Radio Communications
Lyncole XIT Grounding
Olympic Radio-LLC
Primus Electronics
Racom Products Inc.
ROHN Industries Inc.
Sabre Communications Corp.
Sitemaster
Spectrasite Broadcast Grove
SSAC - An ABB Co.
Stainless Inc.
Swager Communications
Tower Connections
Tower Structures
Unita Communications
Webster Communications Inc.
Wisco International

Towers

A/F CommSupply
Aluma Tower Company, Inc.
American Towers & Structures Inc.
Antenna ID Products
Delcom Industries
Doty Moore
El Paso Communications
Electro-Comm Distributors
Engineered Endeavors Inc.
ERI-Electronics Research
Fibrebond Corp.
Fryer's Site Guide and Tower Source
Harris Corp., Intraplex Products
JMS & Associates Inc.
Primus Electronics
ROHN Industries Inc.
Ruf'Nek Building Systems
Sabre Communications Corp.
Sitemaster
Spectrasite Broadcast Grove
Stainless Inc.
Swager Communications
Talley Communications
Tower Connections
TowerTek Industries Inc.
Unita Communications
US Tower Corp.
Utility Tower
Wisco International

Transceivers: 220 MHz

Aerocomm, Inc.
Beam Radio, Inc.
Hutton Communications



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Wherever

Antennas

Filters

Duplexers

Multicouplers

Combiners

A leading manufacturer of advanced antenna and filter systems used in a wide range of wireless applications including public safety, mobile radio, cellular, public transit, and military networks.

Who We Are. What We Do. WE HAVE YOU COVERED.

ABOUT SINCLAIR

At Sinclair we believe that exceeding our customers' expectations requires that we play a leadership role in our industry. To that end, Sinclair is committed to a strong R&D program, development of Industry Standards, and Quality Management.

Sinclair Technologies is a leader in the field of antenna systems, recognized globally as a manufacturer and distributor of high-quality fixed and mobile antennas, filters, receiver multicouplers, transmitter combiners and related components, and complete antenna systems constructed from these elements.

The Company's products are used extensively in the SMR, public safety, cellular, transportation and military sectors and operate in the 30 MHz to 2.5 GHz frequency range.

In addition to a comprehensive portfolio of standard products, Sinclair's engineers design customized products and systems to meet the unique needs of our customers, and can provide special testing and in-service support.

A History of Excellence

The Company was founded in 1951 by Dr. George Sinclair, a pioneer in the development of antennas and filters for military applications. Early innovations included sophisticated multicouplers designed to meet rigorous specifications established by the U.S., Canadian, Dutch and British Navies for improved shipboard communications, and a series of antennas designed for the U.S. and Canadian Air Forces.

The Company has a history of designing and building products capable of operating in extreme conditions. Today, Sinclair antennas are

in operation at both the North and South Poles, and the Company is a major supplier of antennas and filter systems for use in harsh environments.

Industry Leadership

At Sinclair we believe that exceeding our customers' expectations requires that we play a leadership role in our industry. To that end, Sinclair is committed to a strong R&D program, development of Industry Standards, and Quality Management.

Sinclair operates an R&D facility where highly-trained engineers, equipped with sophisticated design tools, develop innovative and superior products for our customers. Advanced test facilities support the performance verification and accelerated life testing that are important elements of our product development programs.

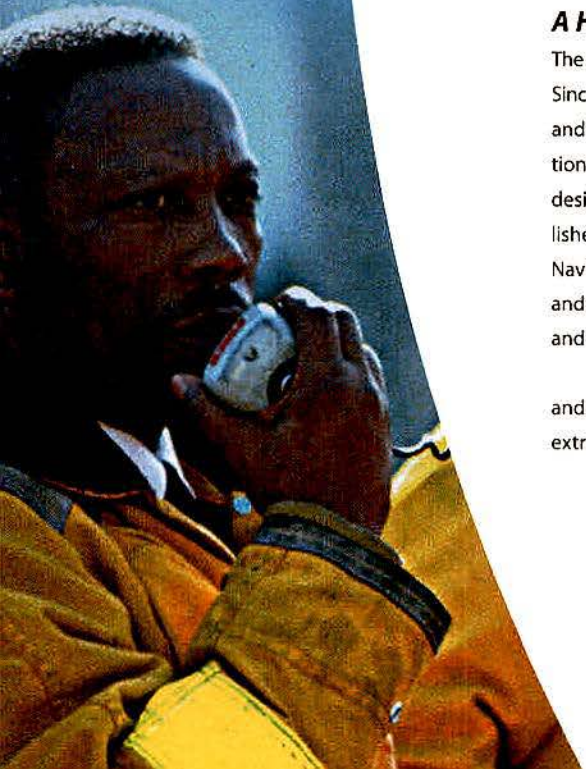
Building on a strong history of involvement in public safety and public security networks, Sinclair is a Founding Signatory to the TETRA Memorandum of Understanding and is an active participant in APCO.

Building Relationships

Sinclair works closely with:

- public sector network operators, including several national and regional police forces and military networks, and many ambulance and fire dispatch services;
- cellular network operators in the Americas, Europe and Asia;
- private sector network operators, including trucking, construction, oil-field and forestry management companies, and other dedicated network operators; and,
- a range of international OEMs who build equipment for these networks.

Sinclair operates sales, engineering and manufacturing facilities in North America and Europe and has a global network of distribution partners.



Introducing SINCLAIR'S LATEST ANTENNA SOLUTIONS

Building on fifty years experience in designing high performance antenna systems, Sinclair Technologies is introducing several new antennas to its product offering.

Sinclair antennas provide reliable coverage even in the most extreme weather conditions.



High Performance Omni Antennas

Sinclair's high performance omni antenna family has been enhanced to provide superior VSWR and intermod performance for the most demanding applications. Designed to provide reliable coverage for AMPS, GSM, CDMA, TDMA, SMR, Public Safety and Paging networks, the SC480 family of antennas satisfies a wide range of gain, vertical beamwidth, electrical downtilt and pattern requirements in the 800 – 970 MHz frequency range.

Designed for ease of installation and fabricated using rugged components for superior resistance to harsh environmental conditions, these antennas provide reliable coverage even in the most extreme weather conditions.

Network operators and OEMs in North America and around the world rely on these dependable, high performance omni antennas.



Low Intermod VHF Exposed Dipole Antennas

Sinclair's 'SD' series Low Intermod VHF Exposed Dipole Antennas have also been enhanced. These antennas offer offset, bi-directional and omnidirectional patterns and industry-leading VSWR and intermod performance. They feature external harnesses for low noise operation and are perfectly suited to multicoupled system applications.

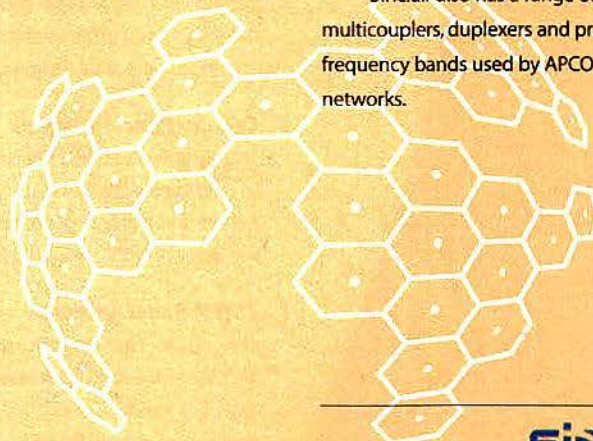
If intermod is an issue in your VHF system, we invite you to examine the Sinclair solution, with low intermod antennas that deliver quality, durability and performance.



APCO P25 and TETRA Digital Networks

Sinclair has introduced a comprehensive range of antennas for TETRA networks and offers a complete line compatible with APCO P25 standards. Designed to withstand harsh environments and comply with low intermod requirements, our product offering includes omnidirectional collinear antennas, dipole arrays, directional yagis and dual-polarized panels, as well as rugged low-profile mobile antennas. This line-up includes a wide variety of gain and downtilt specifications in the 380 – 470 MHz and 800 MHz bands.

Sinclair also has a range of combiners, multicouplers, duplexers and pre-selectors in the frequency bands used by APCO P25 and TETRA networks.



Products

EXAMPLES FROM OUR EXTENSIVE PRODUCT CATALOG

COMMITMENT TO PRODUCT DEVELOPMENT

Sinclair Technologies is a leader in its field — recognized globally as a manufacturer and distributor of high-quality fixed and mobile antennas, filters, receiver multicouplers, transmitter combiners and related components, and complete antenna systems constructed from these elements.

A Fixed Dipole Antennas

VHF and UHF base station antennas ideally suited to multicoupled systems. Available in single, two, four or eight-bay configurations with gain values ranging from 2 – 8.5 dBd.

B High Performance Omnidirectional Antennas

These antennas provide maximum coverage for cellular, TETRA, APCO P25, trunked radio, SMR and Paging systems and have gain values ranging from 2.5 – 10.5 dBd.

C Fiberglass Collinear Antennas

These easy-to-install antennas are designed to withstand severe environmental conditions and operate in the VHF, TETRA, UHF and 800 – 900 MHz frequency range.

D Enclosed Dipole Array Antennas

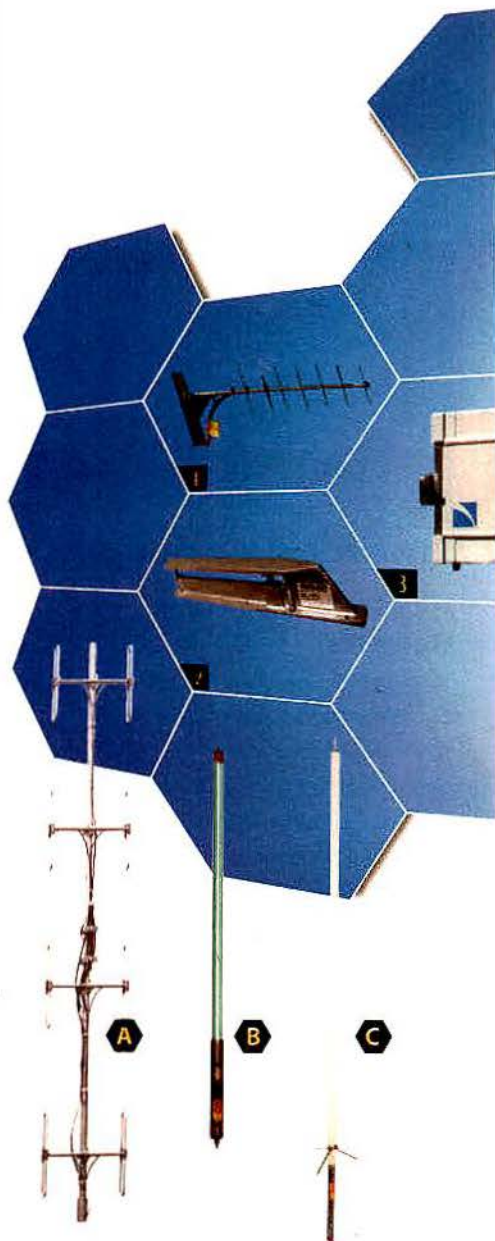
This versatile series of antennas is well suited to cellular applications where specific coverage patterns and highly dependable service are required. The adjustable reflector models allow for various horizontal beamwidths.

E Cellular Panel Antennas

This versatile series of antennas is well suited to cellular applications where specific coverage pattern and highly dependable service are required in the 806 – 960 MHz frequency range.

F TETRA Panel Antennas

Designed for high performance in a light-weight, durable package, these dual polarized antennas are ideal for TETRA base station applications in the 380 – 470 MHz range.



1 Yagi Antennas

Sinclair offers a wide range of reliable and durable base station directional yagi antennas that operate in various frequency ranges from 138 – 966 MHz. Anodized and Teflon coated models are available.



2 **Excaliber™ Mobile Antennas**

Low profile, cast aluminum or radome-enclosed VHF and UHF antennas designed for emergency vehicles, buses, trucks, trains and materials handling equipment. The VHF Excaliber™ has become a North American standard for railroad locomotive service in the 38 – 512 MHz frequency range.

3 **Log Periodic/Data Antennas**

Designed for use in data systems, these rugged but lightweight antennas operate in the 800 – 1000 MHz frequency range.

4 **C-Series Multicouplers**

These units provide excellent performance combined with the ease of expandability required in many multicoupled systems operating in the 132 – 512 MHz frequency range.

5 **High Performance Filters**

Utilizing cross-coupled architecture with either ceramic or air resonators, these filters can be custom designed to meet unique and challenging requirements.

6 **Mobile Duplexers**

Compact, lightweight and housed in a durable aluminum extrusion, these units are available in frequency ranges from 138 – 960 MHz.

7 **Res-Lok Q-Series Duplexers**

Sinclair's Q-Circuit design, coupled with our Res-Lok modular construction, result in a series of extremely versatile duplexers offering exceptional performance in frequency ranges from 66 – 960 MHz.

8 **Tower Top Amplifiers**

Designed to enhance receive system sensitivity by compensating for losses encountered in long feed cable runs, these units operate in the 406 – 512 and 806 – 960 MHz frequency ranges.

9 **Trunking Transmitter Combiners**

Highly versatile units available in expandable 5 and 10 channel models, as well as a fully expanded 20-channel version, for the 406 – 512 and 851 – 869 MHz frequency ranges.

10 **Receiver Multicouplers**

Designed to conserve valuable tower space and lower system maintenance costs by allowing for 2 to 12 channels to be connected to a single antenna line. Units are available with various power supplies and preselectors that operate in frequency ranges from 138 – 960 MHz.

11 **Cavity Ferrite Transmitter Combiners**

Open-cabinet units available in 2 to 8-channel configurations in both VHF and UHF frequencies. Sinclair also offers rack mounted units, expandable to 20 channels for systems with frequency ranges from 132 – 960 MHz.

Custom Solutions TO DEMANDING TECHNICAL PROBLEMS

Sinclair remains committed to staying on the forefront of innovation by tailoring solutions that meet our customers' specific requirements.

At a time when many equipment manufacturers are backing away from custom engineering, Sinclair remains committed to staying on the forefront of innovation by tailoring solutions that meet our customers' specific requirements.

Custom Designed Cross-Coupled Filters

Sinclair has developed a line of filters and duplexers based on cross-coupled architectures and ceramic or air resonating structures.

These filter products can achieve the high levels of performance that are required for today's state-of-the-art base station, in-building and mobile filtering solutions at frequencies ranging from 400 MHz to 2 GHz.

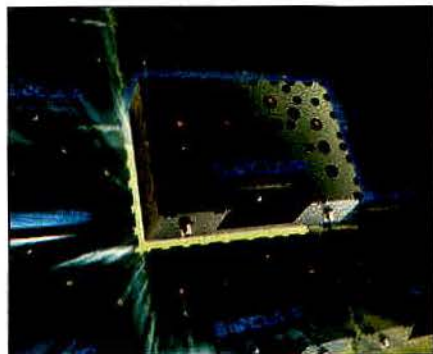
With our advanced design software and 50 years of expertise, Sinclair can custom design a filter for your specific needs, and then provide rapid turnaround of prototypes for evaluation and testing in your system. We can provide such things as asymmetric bandpass responses with high rejection close to the passband, as well as notch filtering.

Low insertion loss, high rejection and compact size, combined with the ability to withstand extremes of temperature and vibration, are the trademarks of Sinclair filters. Ideally suited for OEMs and network operators, these filter products can also be integrated with other system components such as power dividers and low noise amplifiers, all within a common housing.

Custom Systems Design

With tower space at a premium and frequency congestion on the increase, many communications projects have turned into complex systems demanding advanced combining or multicoupling, high levels of isolation or sophisticated interference protection.

Sinclair Technologies provides Systems Engineering Services from our offices in the U.S., Canada and the U.K. For systems that involve combining and/or multicoupling, we analyze the frequencies for potential intermod interference, then examine allowable antenna spacing, radio types, and physical space limitations. Sinclair will then provide a design specifically tailored to the customer's requirement. For systems experiencing frequency interference problems, Sinclair can design practical and cost effective solutions to eliminate the interference.

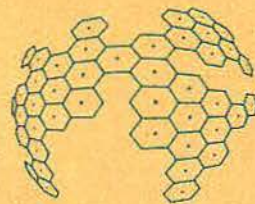


Our solutions employ components from Sinclair's extensive portfolio of rugged and reliable products. If a component required for proper system performance is not part of Sinclair's product portfolio, we will select the appropriate item from a qualified third party vendor.

Each customized system is documented under a unique Sinclair model number. Customers are able to re-order the same system, or have the system modified if requirements should change. All performance specifications are repeatable, and all systems are backed by the full Sinclair warranty.



Customer CASE STUDY



Motorola and Sinclair Team to Deliver Voice Radio System for Niagara Regional Police Service

Motorola, Inc. is a global leader in providing integrated communications solutions. Motorola Canada has over 1,000 employees and offices in major urban centers across the country. Four design centers specialize in developing hardware and software products for Motorola's worldwide markets.

Motorola has been a Sinclair Technologies' customer for more than 40 years and the two companies have worked together on an estimated 45 projects, primarily in the public safety arena. Motorola designs and provides the communications systems and equipment, and Sinclair provides the antennas, filters and related components.

Customers have included regional police departments, emergency health services and Corrections Canada.

Most recently, Sinclair Technologies and Motorola worked together on a voice radio system that Motorola designed and is implementing for the Niagara Regional Police Service.

Photo Credit: Motorola, Inc.



When the Niagara Regional Police wanted to replace their voice radio system with one that featured more advanced technology, including digital encryption, they turned to Motorola. Motorola's engineering department designed the 21-site voice radio system, which included specifications for multicoupler systems that enable up to eight frequencies to work together on one antenna. Of the system's 21 antenna sites, 14 were designed for receive only signals, while the remaining seven were designed for receive and transmit radio signals. Motorola turned to Sinclair to build the custom systems, and in less than eight weeks, Sinclair delivered. Sinclair's standard RM-21204N bipolar receiver multicouplers were used in 18 of the custom systems. These multicouplers allow between 1 and 12 receivers to be connected to a single antenna line, conserving valuable tower space and reducing system maintenance costs.

Three sites use Sinclair's 'C' Series combining/multicoupling systems, which have built-in redundancy for high reliability.

According to the Motorola project manager, Sinclair's combining/multicoupling systems minimize interference across the network. He also explained that Motorola continues to appreciate Sinclair's "high quality products, and skilled engineering and design services."

Once the installation is completed, the antennas will enable an estimated 600 mobile radio users to communicate through five dispatch consoles across the Niagara Region, which covers a 900 square mile area.

The project manager also explained that Motorola continues to appreciate Sinclair's "high quality products, and skilled engineering and design services."



MOTOROLA

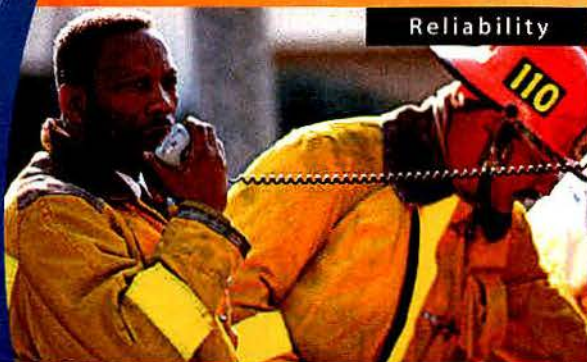
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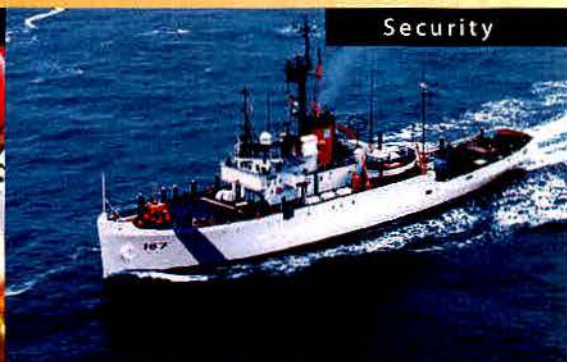
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Reliability



Security



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Duplexers
Multicouplers
Combiners

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Customization



Coverage



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14150 U.S.A.
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www.sinctech.com

Sinclair Technologies Inc.

85 Mary Street
Aurora, Ontario
L4G 6X5 Canada
Tel: (800) 263-3275
Fax: (905) 727-0861

www.sinctech.com

Sinclair Technologies Ltd.

William James House
Cowley Road, Cambridge
CB4-0WX U.K.
Tel: +44 (0) 1223 42 03 03
Fax: +44 (0) 1223 42 06 06

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Tel: (800) 435-1636
www.primuselectronics.com

Talley Communications

Tel: (800) 949-7099
www.talleycom.com

For your local Manufacturer's Representative refer to Sinclair's web site at: www.sinctech.com

Circle 35 on Fast Fact Card or visit freeproductinfo.net/mrt

ICOM America, Inc.
Jack Daniel Co.
Quality Mobile Communications
RF Neulink (Div of RF Industries)
SEA, Inc.
Spectra Engineering
Sterling Associates Inc.
Wisco International

Transceivers: Digital

Beam Radio, Inc.
Delcom Industries
Esteem Wireless Modems
4RF Communications Ltd.
ICOM America, Inc.
Kenwood Communications
Manon Engineering Inc.
Quality Mobile Communications
RF Neulink (Div of RF Industries)
Schaefer Radio
Sterling Associates Inc.
Thales Communications Inc.

Transceivers: FM Conventional

Adams Distributing
Air Comm
B&C Communications
Beam Radio Inc.
Delcom Industries
El Paso Communications
General Communications Inc.
ICOM America Inc.
Imark Communications Pty Ltd.
Kenwood Communications
Klein Electronics
Manon Engineering Inc.
NSI Communication Inc.
PMC Association
PRYME Radio Products
P&W Service Center
Quality Mobile Communications
Reim Wireless Corp.
Schaefer Radio
Secom Systems Inc.
SmartComm USA Inc.
Spectra Engineering
Sterling Associates Inc.
Stuart Electronics
Tekk, Inc.
Thales Communications Inc.
Vertex Standard
Wisco International

Transceivers: FM Trunking

Adams Distributing
Air Comm
B&C Communications
Beam Radio Inc.
Cooks Communications
Delcom Industries
EF Johnson
El Paso Communications
General Communications Inc.
Hill Radio Communications
ICOM America Inc.
Imark Communications Pty Ltd.
Kenwood Communications
Manon Engineering Inc.
NSI Communication Inc.
Olympic Radio-LLC
PMC Association
Quality Mobile Communications
Reim Wireless Corp.
Ritron, Inc.
Schaefer Radio
Secom Systems Inc.
Sentry Services International
Spectra Engineering
Sterling Associates Inc.
Synetcom Digital
Vertex Standard
Wisco International

Transceivers: HF SSB

B&C Communications
Beam Radio Inc.

DH Marketing
EF Johnson
El Paso Communications
ICOM America Inc.
NSI Communication Inc.
Schaefer Radio
SGC, Inc.
Synetcom Digital
Vertex Standard
Wisco International

Trunked Radio Systems: 800/900MHz Trunking

Adams Distributing
Advanced Test Equipment Corp. (ATEC)
Beam Radio Inc.
Connect Systems Inc.
Cooks Communications
DX Radio Systems
EF Johnson
EJ Dort & Association
El Paso Communications
EMR
General Communications Inc.
The Genesis Group
Hark Systems Inc.
ICOM America, Inc.
IDA
ITV
Kenwood Communications
M/A-Com Wireless Systems
Manon Engineering, Inc.
National Distribution Center - NDC Sales
Mini Ad for National Distribution Center - NDC Sales goes here.
Quality Mobile Communications
Radio Communications
Wholesalers
Reim Wireless Corp.
Secom Systems Inc.
Sinclair Technologies Inc.
SmartLink Radio Networks Inc.
Sterling Associates Inc.
Talley Communications
Telewave Inc.
Trident Micro Systems
Unita Communications
Wisco International
Zetron

Trunked Radio Systems: Digital

Beam Radio Inc.
EJ Dort & Association
EMR
The Genesis Group
ICOM America Inc.
ITV
Kenwood Communications
M/A-Com Wireless Systems
Manon Engineering Inc.
Quality Mobile Communications
SmartLink Radio Networks Inc.
Sterling Associates Inc.
Talley Communications
Telewave, Inc.
Unita Communications

Trunked Radio Systems: UHF Trunking

Adams Distributing
Air Comm
Beam Radio Inc.
Connect Systems Inc.
Cooks Communications
Delcom Industries
DH Marketing
DX Radio Systems
EF Johnson
EJ Dort & Association
El Paso Communications

EMR
General Communications Inc.
Hark Systems Inc.
ICOM America, Inc.
IDA
ITV
Kenwood Communications
M/A-Com Wireless Systems
Manon Engineering, Inc.
PMC Association
Quality Mobile Communications
Radio Communications
Wholesalers
Reim Wireless Corp.
RF Technology
Ritron, Inc.
Schaefer Radio
Secom Systems Inc.
Sinclair Technologies Inc.
SmartLink Radio Networks Inc.
SmartTrunk Systems Inc.
Sterling Associates Inc.
Talley Communications
Telewave, Inc.
Trident Micro Systems
Unita Communications
Wisco International
Zetron

Trunked Radio Systems: VHF Trunking

Adams Distributing
Beam Radio, Inc.
Connect Systems Inc.
Cooks Communications
Delcom Industries
DX Radio Systems
EJ Dort & Association
EMR
ICOM America Inc.
IDA
ITV
Kenwood Communications
M/A-Com Wireless Systems
Manon Engineering Inc.
PMC Association
Quality Mobile Communications
RF Technology
Schaefer Radio
Secom Systems Inc.
Sinclair Technologies Inc.
SmartLink Radio Networks Inc.
SmartTrunk Systems Inc.
Sterling Associates Inc.
Talley Communications
Telewave, Inc.
Trident Micro Systems
Unita Communications
Wisco International

Uninterruptible Power Systems

Andrew Corp.
Beam Radio, Inc.
Benelec Pty Ltd.
Contact East
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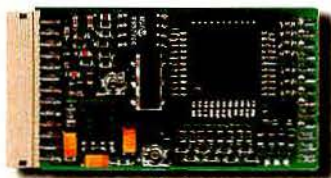
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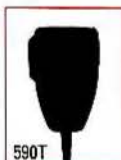
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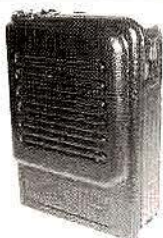
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- ☒ \$120 2-tone page only
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- ☒ On freq with 90 day warranty

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- ☒ Installed in a Keynote \$50
- ☒ Installed in a Director II \$60
- ☒ Board only \$40 each (Min 10 boards)

Minitor II scan board

- ☒ Installed \$50 each
- ☒ Do it yourself kit \$40 each

Minitor III pagers \$299

- ☒ Add \$40 for Stored Voice
- ☒ Add \$60 for 2 channel
- ☒ Add \$38 for 5 year warranty
- ☒ Add \$99 for amp charger (in place of std)
- ☒ These are brand new units
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**Authorized Dealer pricing shown
others slightly higher**

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Tone filters/reeds

- ☒ Minitor I \$20 each
- ☒ Minitor II \$25 each
- ☒ In stock reeds/filters only

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- ☒ Replaces Motorola #NLN3548B

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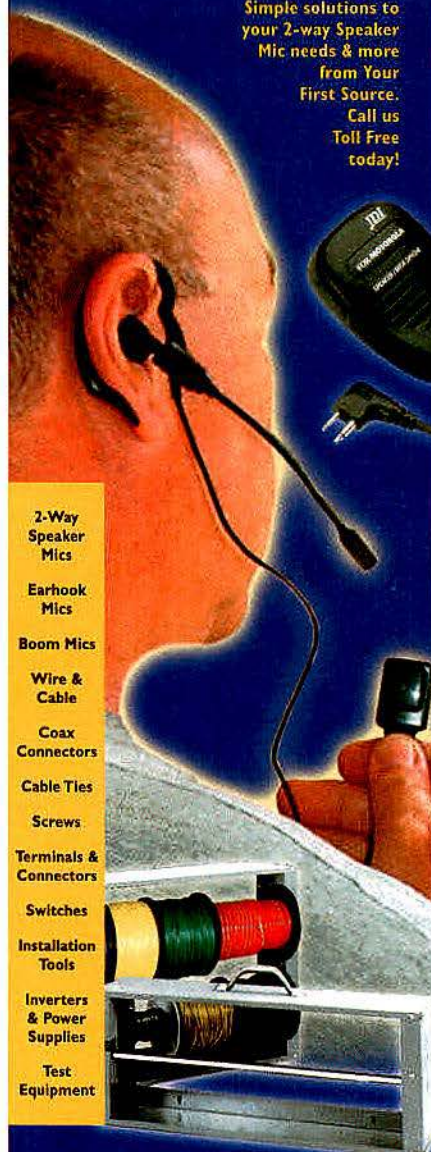
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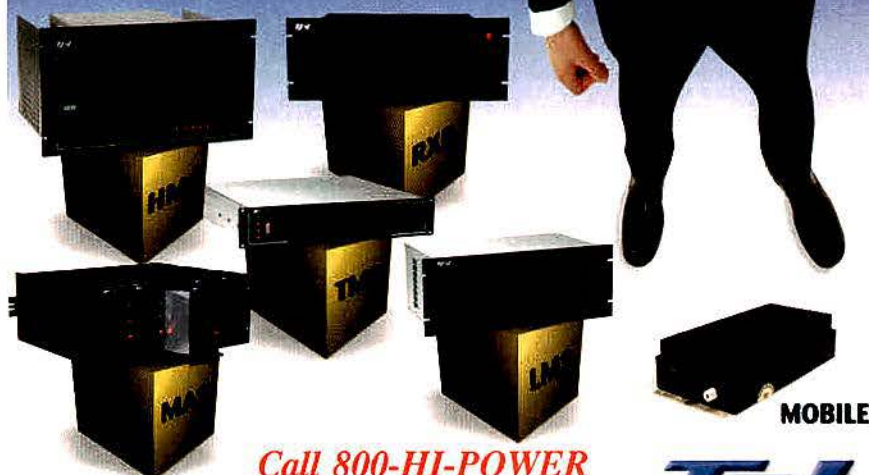
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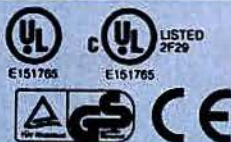
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SS-12	10	12	1 1/2 x 6 x 9	3.4
SS-18	15	18	1 1/2 x 6 x 9	3.6
SS-25	20	25	2 1/4 x 7 x 9 1/2	4.2
SS-30	25	30	3 1/4 x 7 x 9 1/2	5.0

DESKTOP SWITCHING POWER SUPPLIES WITH VOLT AND AMP METERS

MODEL	CONT. (Amps)	ICS	SIZE (Inches)	Wt.(lbs.)
SS-25M*	20	25	2 1/4 x 7 x 9 1/2	4.2
SS-30M*	25	30	3 1/4 x 7 x 9 1/2	5.0

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MODEL	CONT. (Amps)	ICS	SIZE (Inches)	Wt.(lbs.)
SRM-10	7	10	3 1/2 x 19 x 9 1/2	4.3
SRM-12	10	12	3 1/2 x 19 x 9 1/2	4.7
SRM-18	15	18	3 1/2 x 19 x 9 1/2	5.0
SRM-25	20	25	3 1/2 x 19 x 9 1/2	6.5
SRM-30	25	30	3 1/2 x 19 x 9 1/2	7.0

WITH SEPARATE VOLT & AMP METERS

MODEL	CONT. (Amps)	ICS	SIZE (Inches)	Wt.(lbs.)
SRM-25M	20	25	3 1/2 x 19 x 9 1/2	6.5
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2 ea SWITCHING POWER SUPPLIES ON ONE RACK PANEL

MODEL	CONT. (Amps)	ICS	SIZE (Inches)	Wt.(lbs.)
SRM-25-2	20	25	3 1/2 x 19 x 9 1/2	10.5
SRM-30-2	25	30	3 1/2 x 19 x 9 1/2	11.0

WITH SEPARATE VOLT & AMP METERS

MODEL	CONT. (Amps)	ICS	SIZE (Inches)	Wt.(lbs.)
SRM-25M-2	20	25	3 1/2 x 19 x 9 1/2	10.5
SRM-30M-2	25	30	3 1/2 x 19 x 9 1/2	11.0



MODEL SRM-30



MODEL SRM-30M-2



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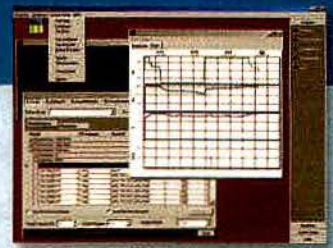
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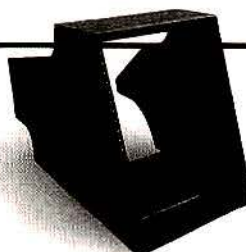
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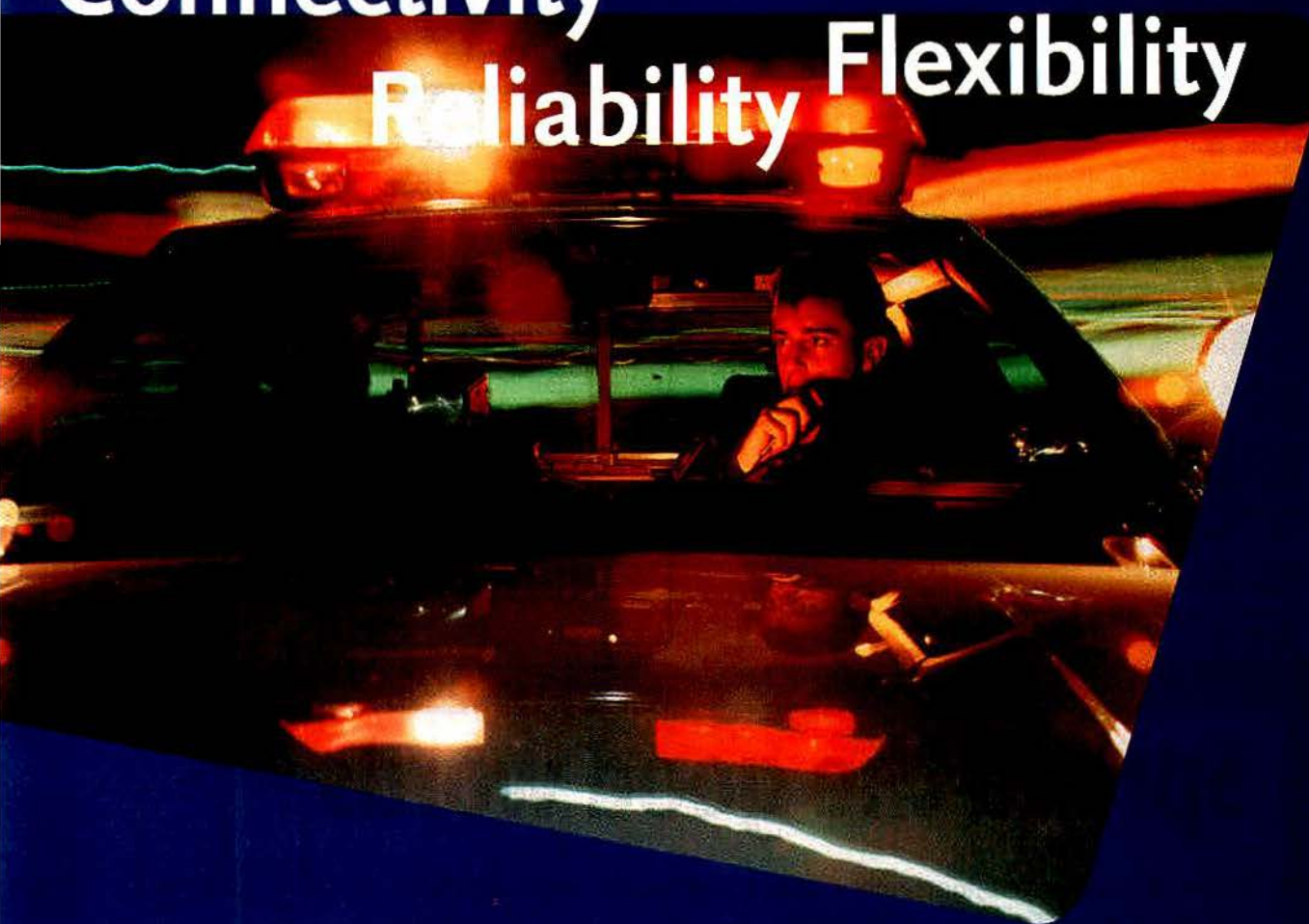
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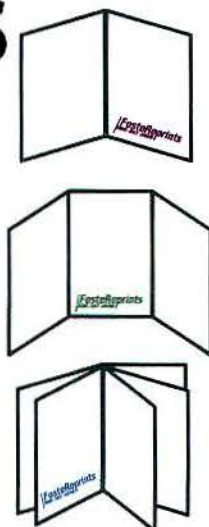
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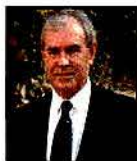


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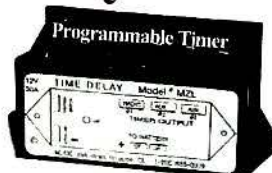
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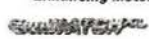


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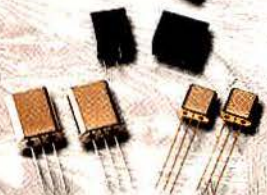
Selectone

LINE OF TONE SIGNALING AND ENCRYPTION PRODUCTS
TO BETTER FULFILL YOUR TONE SIGNALING REQUIREMENTS



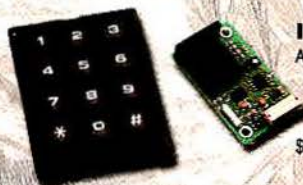
DCS-23

Digital Coded Squelch Encoder-Decoder
Jumper Programmable to all 106 DCS codes.
1.36" x 1.18" x 0.25"
\$59.95



FILTERS

Call us for the lowest cost, 12.5kHz channel spacing,
exact replacement crystal and ceramic IF filters for
part 90 Refarming. Complete kits available for
most popular radios at \$15.00 to \$25.00/kit.



ID-8

Automatic Morse Station Identifier
Meets all FCC ID requirements.
Fully field programmable with included keypad.
1.85" x 1.12" x .35"
\$69.95



PE-1000

Desktop Paging Encoder
Two-Tone Sequential.
Other formats and custom tones available.
7.5" x 7.8" x 2.7"
\$224.95



SS-64

CTCSS Encoder
Microminiature, DIP switch programmable.
Includes 64 tones from 33.0 to 254.1 Hz.
0.66" x 1.08" x 0.21"
\$28.95



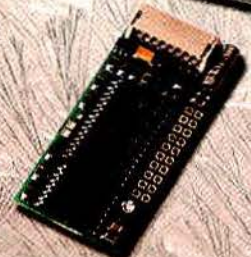
TE-32

Multi-tone CTCSS Encoder
Rotary dial switchable to any of the standard 32 EIA tones.
5.25" x 3.3" x 1.7"
\$49.94
TE-32D with LED display, \$99.95



TP-3200

Shared Repeater Tone Panel
Full featured and with all 157 CTCSS/DCS codes.
Desktop and rack mounted versions.
\$279.95



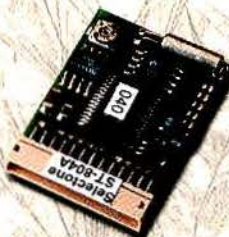
TS-64

CTCSS Encoder-Decoder
Microminiature jumper programmable.
Includes 64 tones from 33.0 to 254.1 Hz.
0.78" x 1.70" x 0.25"
\$54.95 (model TS-64DS with DIP switch, \$57.95)



ST-20, 25, 50

Voice Encryption Units
PRIVATE COLLECTION series provides low to high level
security for two-way radio voice applications.
PC programmable with optional kit.
0.9" x 1.5" x 0.25"
\$79.00 - \$299.00



ST-804A

Multi-Format Encoder
Encodes Two-Tone Sequential, Burst Tone,
or DTMF ANI/ENI Formats.
PC programmable with optional kit,
or factory programmed for free.
1.15" x 0.84" x 0.15"
\$59.95



ST-809B

Multi-Output DTMF Decoder
Decodes address codes of 1 to 7 digits from
all 16 DTMF characters.
Multiple outputs and remote reset capability.
PC programmable with optional kit, or factory
programmable for free.
1.34" x 0.85" x 0.21"
\$59.95



ST-888

Desktop ANI Decoder / Display Unit
Use with ST-804A or other DTMF ANI encoders for
monitoring of fleet radio users and control systems.
\$499.00



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